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1914

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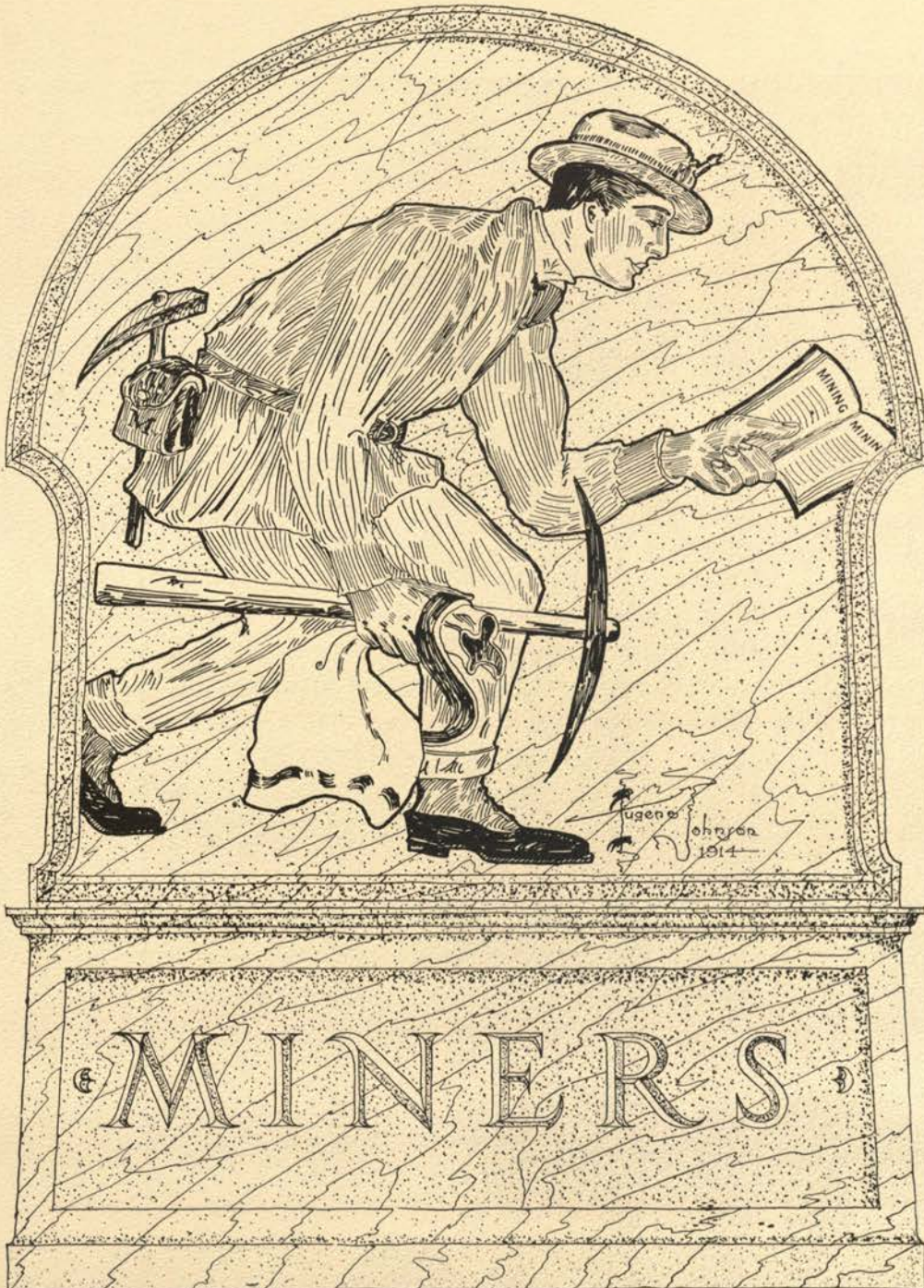
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THE
"ROLLAMO"
YEARBOOK OF THE
MISSOURI
SCHOOL
OF
MINES
AND
METALLURGY
" " "
VOLUME
EIGHT
" " "
"1914"

Eugene J. McGraw
1914

THE ROLLAMO



TO

WILLIAM R. PAINTER, '82

LIEUTENANT GOVERNOR OF THE
STATE OF MISSOURI

THIS BOOK IS RESPECTFULLY
DEDICATED

William R. Painter was born in Carrollton, Missouri, August 27, 1863. He spent his boyhood days there, later attending the Missouri School of Mines, and graduating in 1882 with the degree of Bachelor of Science in Civil Engineering. He followed engineering until 1893, and then took up journalism, becoming editor of the Carrollton Democrat and remaining as such until 1914. In 1912 he was elected Lieutenant Governor of the State of Missouri, in which capacity he will serve until 1917.

William R. Painter is a man we honor and respect. His heart is always with his Alma Mater, and his works are a source of pride and satisfaction to her. May there be more such sons as he!

THE **R**OLLAMO



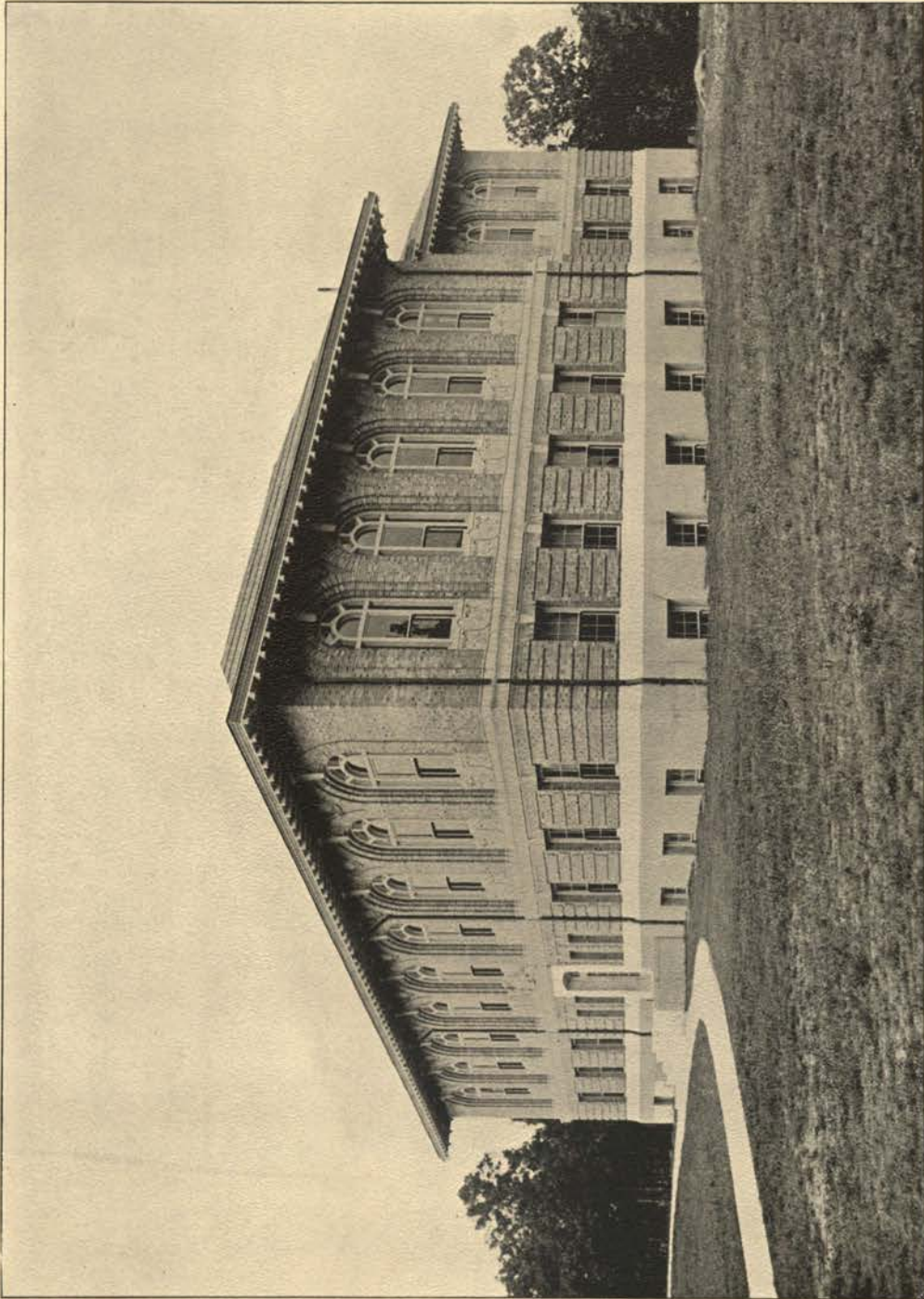
FOREWORD

VERY undertaking is dependent upon the circumstances surrounding it.

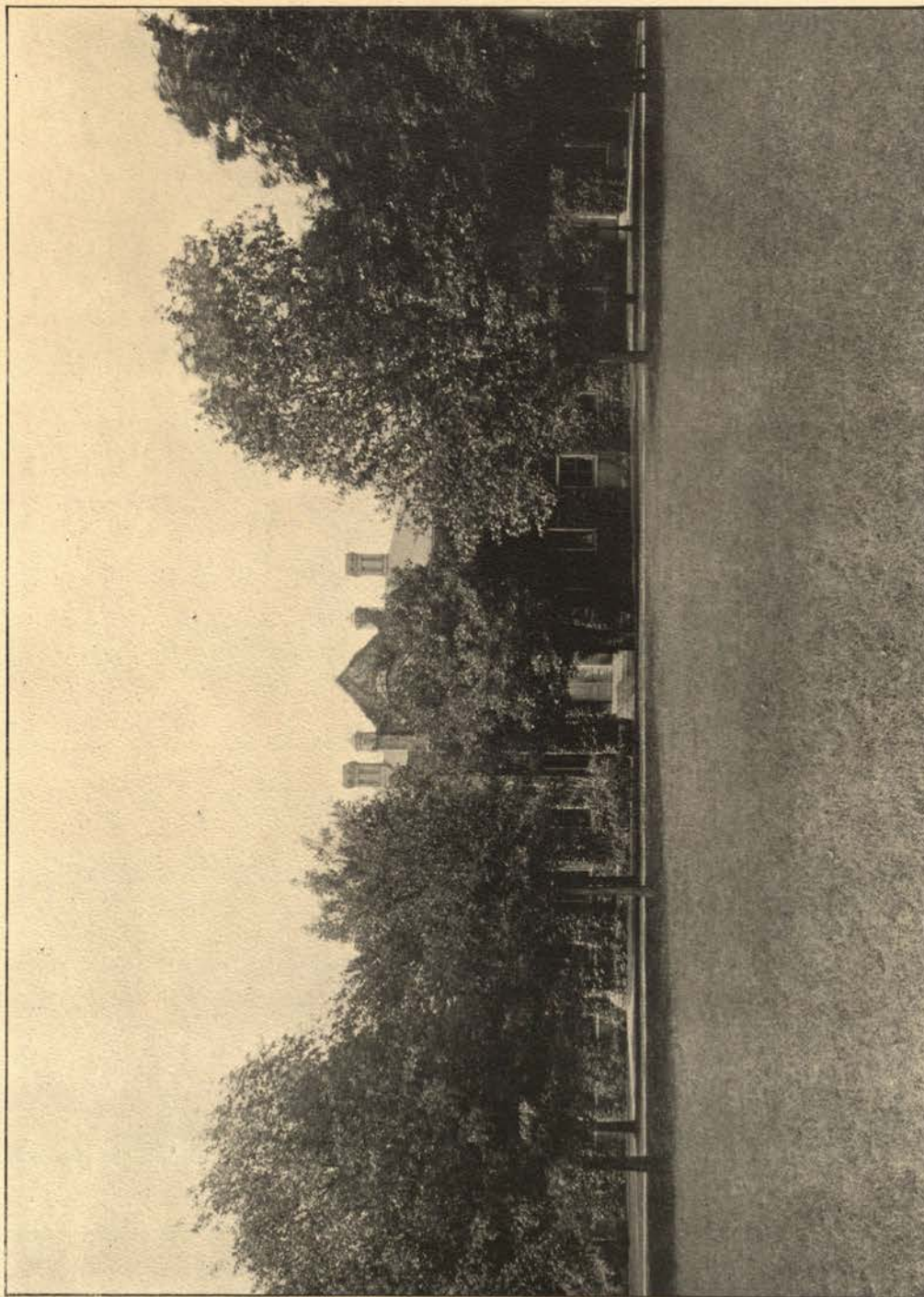
These circumstances are brought about by a body of which every man of us is a part. Thus the "Rollamo of 1914" is before you as your book and your record of the year. Take it as you will.

Our endeavors in connection with this book have been a source of pleasure, pride and profit to us. We have given to it freely and unreservedly of whatever talents we may possess. And if this work recalls the year of 1914 to you in a true and faithful manner, we can ask no more.





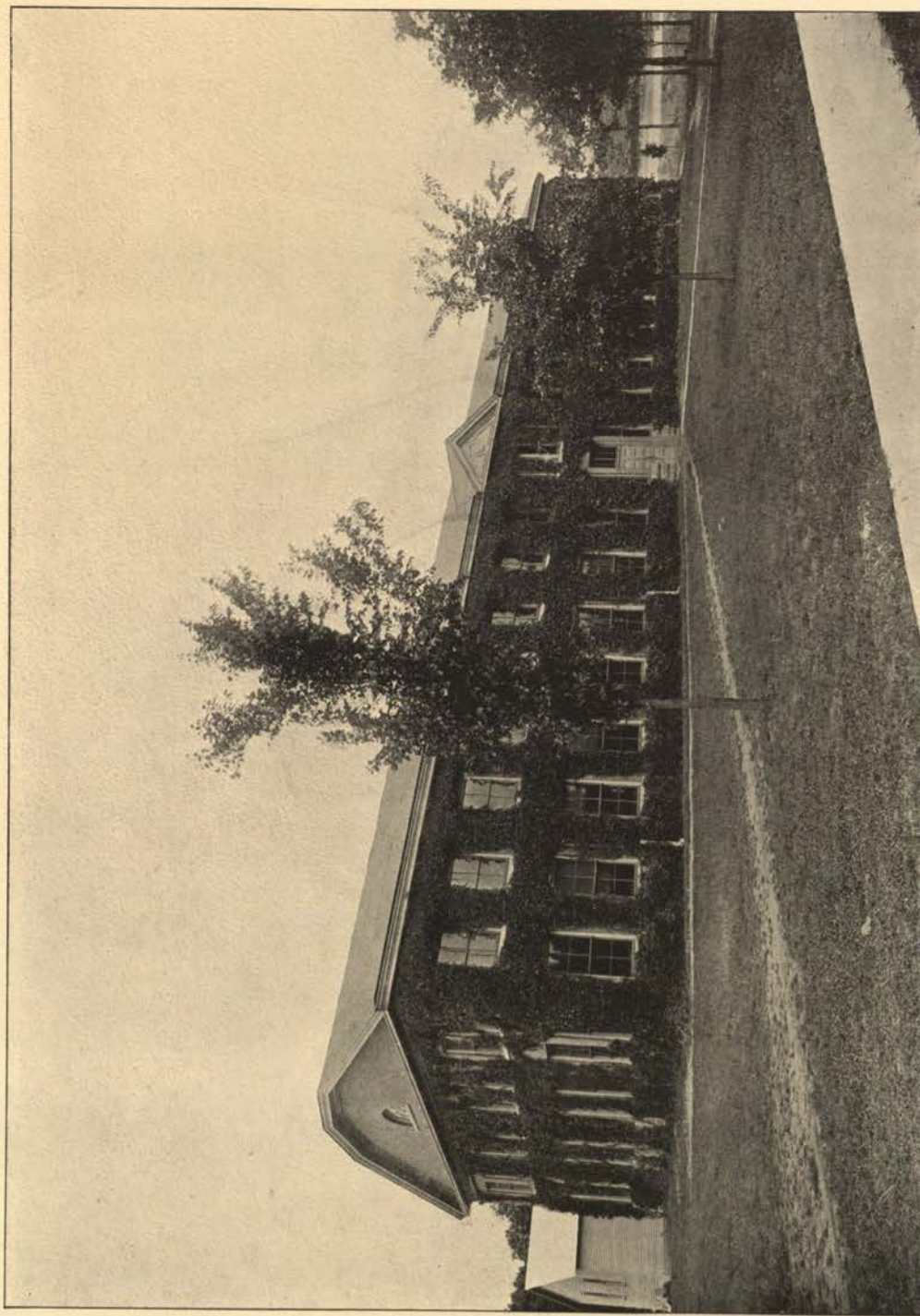
PARKER HALL.



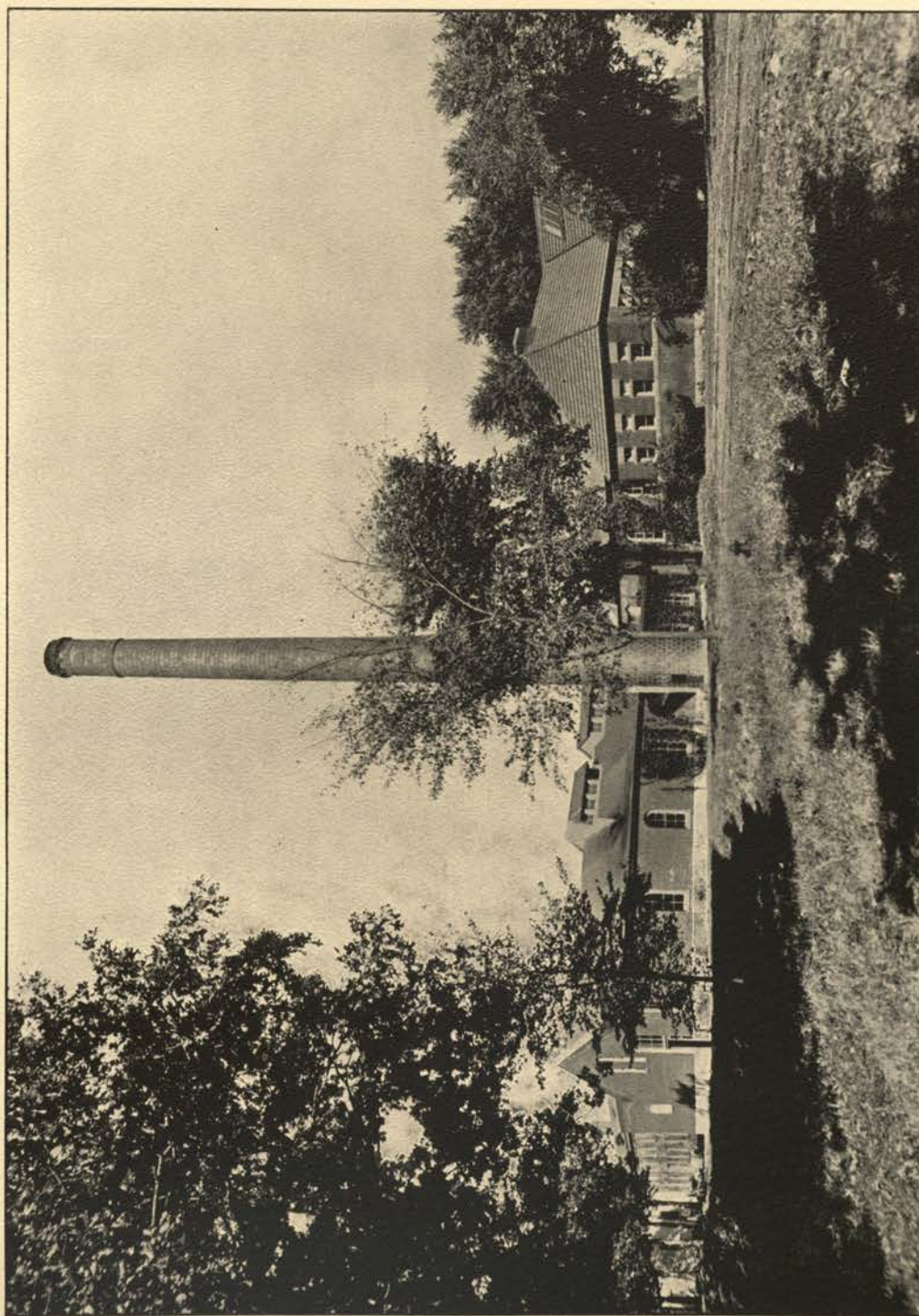
CHEMISTRY BUILDING.



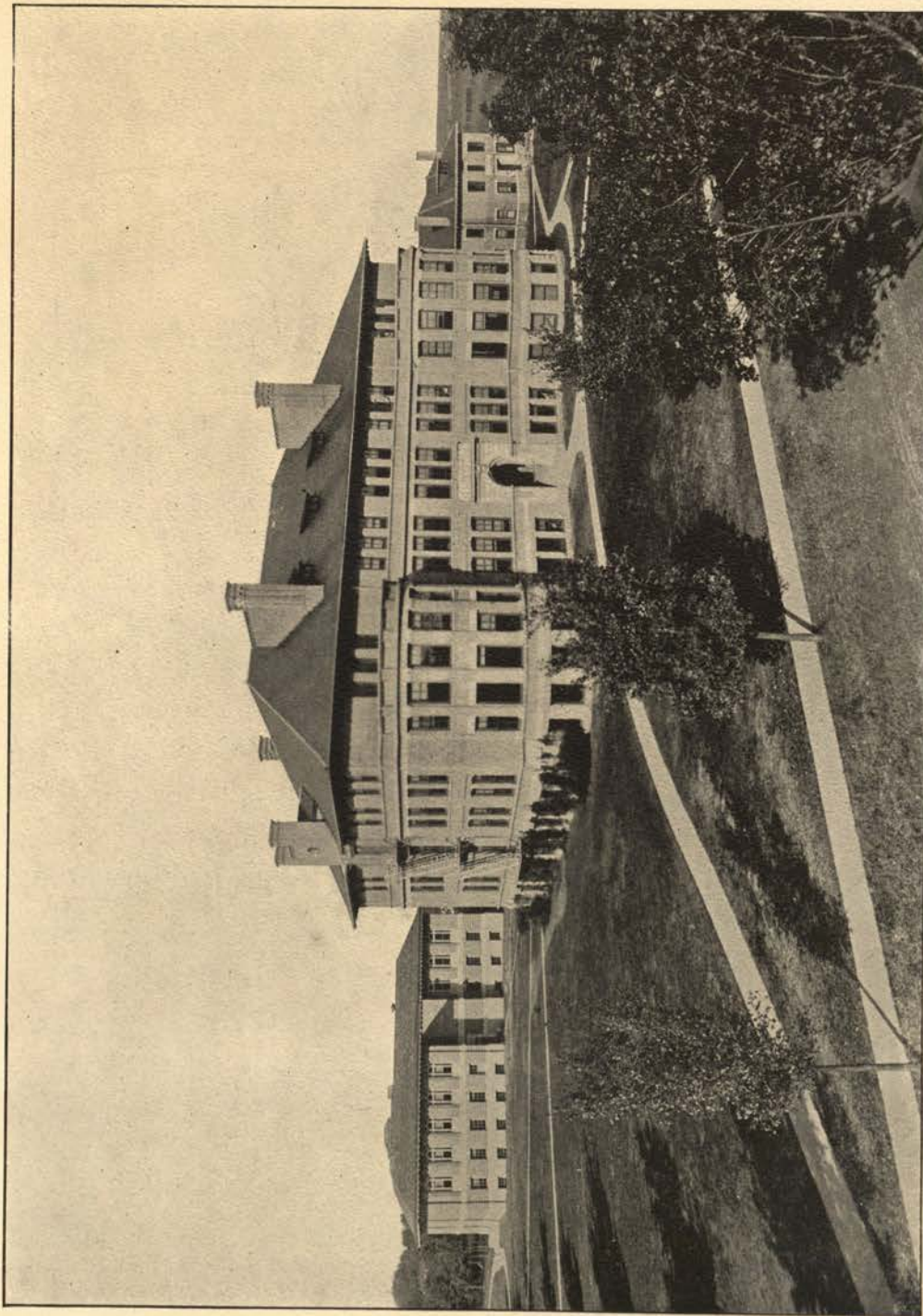
CAMPUS.



MECHANICAL HALL.



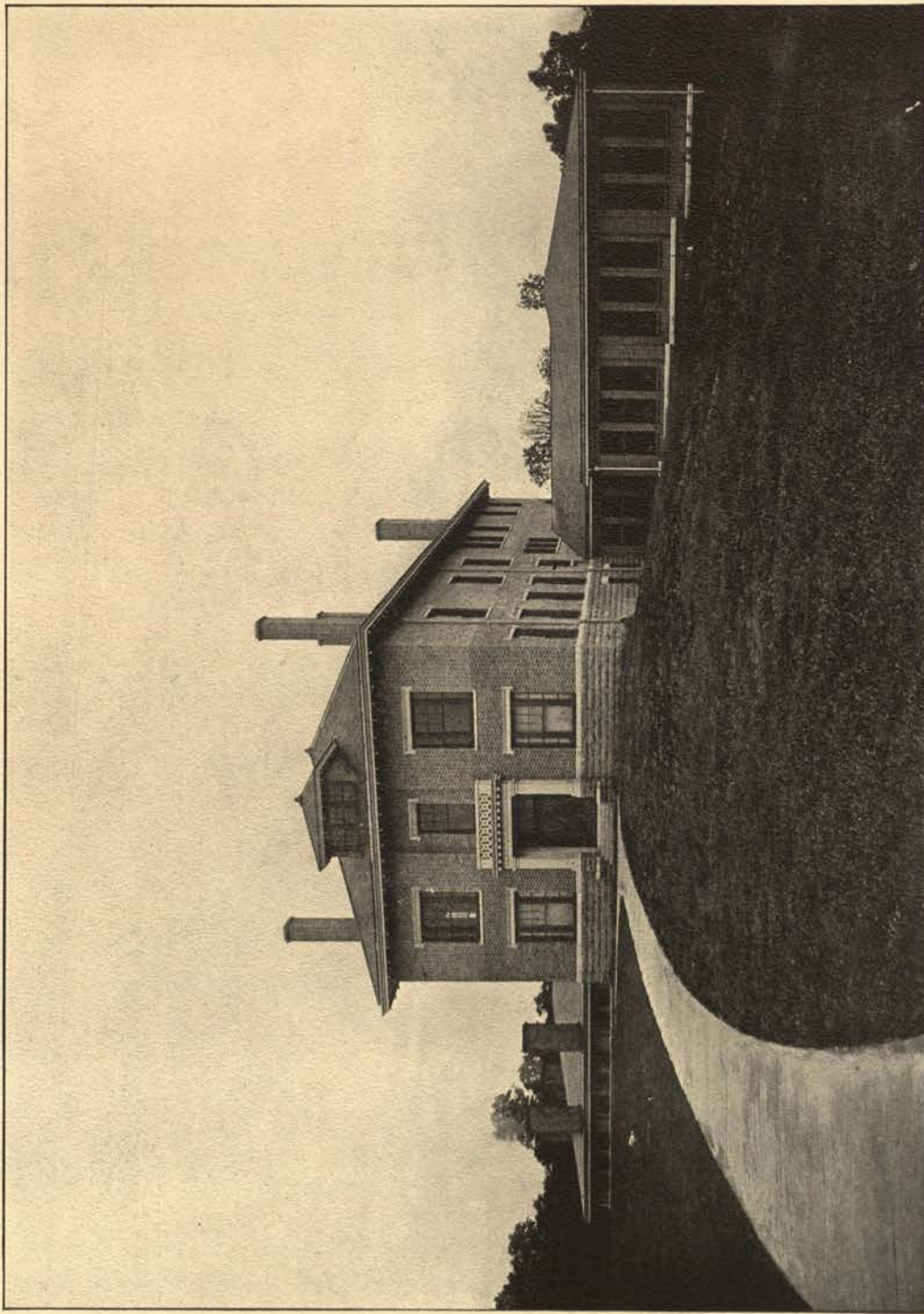
POWER PLANT.



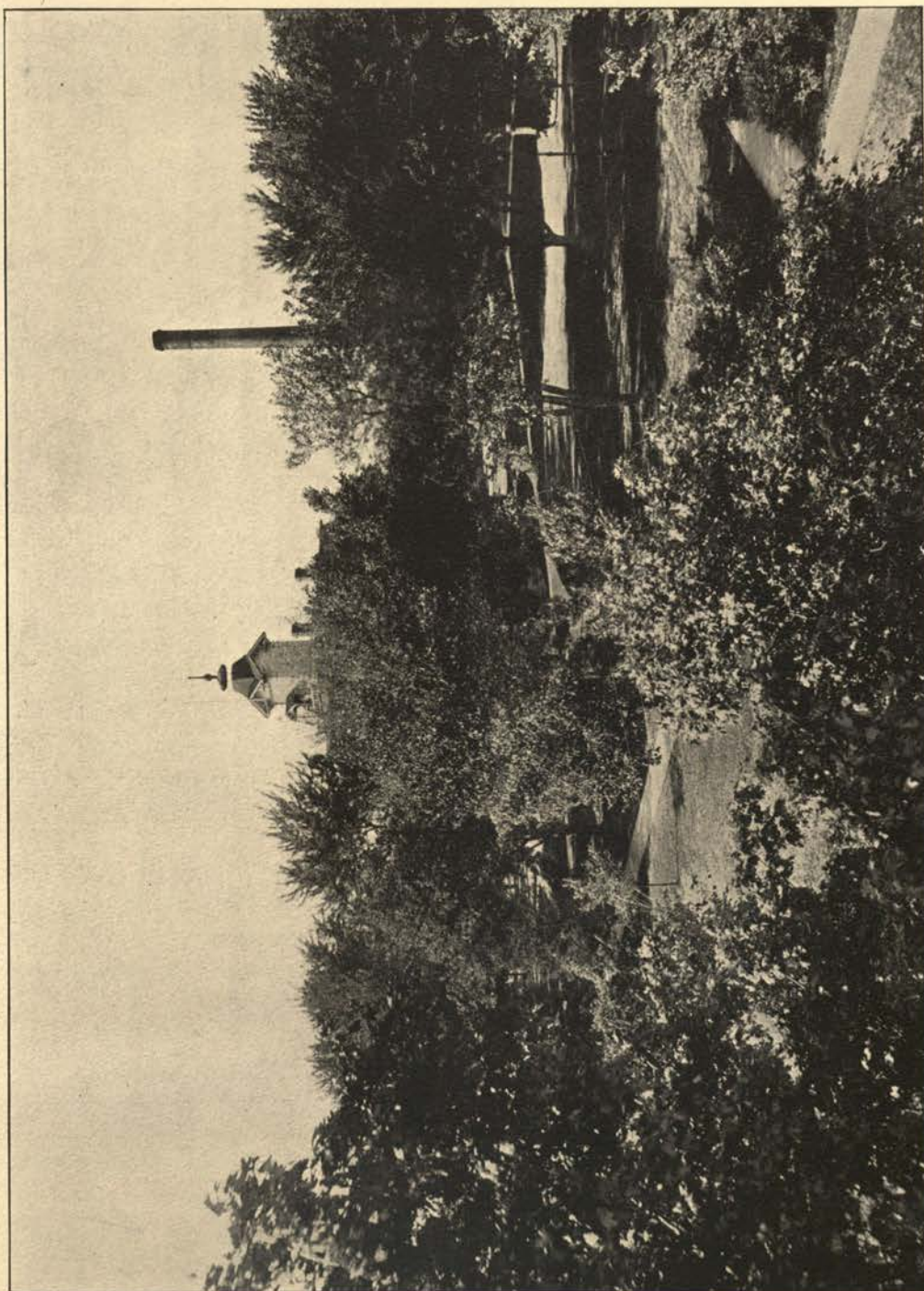
NORWOOD HALL.



SNOW ON THE CAMPUS.



METALLURGY BUILDING.



CAMPUS.

‘FACULTY’



BOARD OF CURATORS.

S. L. Baysinger	Rolla, Missouri
D. R. Francis	St. Louis, Missouri
A. D. Nortoni	St. Louis, Missouri
J. C. Parrish	Vandalia, Missouri
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Sam Sparrow	Kansas City, Missouri
T. J. Wornall	Liberty, Missouri
C. E. Yeater	Sedalia, Missouri
G. L. Zwick	St. Joseph, Missouri

THE EXECUTIVE COMMITTEE OF THE MISSOURI SCHOOL OF MINES.

S. L. Baysinger	Chairman
F. D. Nortoni	G. L. Zwick
C. M. Knapp	Treasurer
Edwin Kahlbaum	Secretary & Registrar
L. E. Garrett	Acting Director



ALBERT ROSS HILL, A. B., Ph. D., LL. D.
President of the University.



LEON ELLIS GARRETT, B.S.

Tau Beta Pi

Associate Professor of Mathematics.
Member of Society for Promotion of
Engineering Education.

B.S., Missouri School of Mines, 1901;
Assistant in Mathematics, 1901-03; In-
structor in Mathematics, Missouri School of
Mines, 1903-06; Assistant Professor of Math-
ematics, Missouri School of Mines, 1906-11;
Student University of Wisconsin, 1911-12;
Assistant Professor of Mathematics in charge
of Mechanics, 1911; Associate Professor of
Mathematics, 1912 Acting Director, Mis-
souri School of Mines, 1913-14.

Leon Ellis Garrett was born October 31, 1872, in Camp Point, Illinois. In 1881 he moved with his parents to Maryville, Missouri, where he attended the public schools and later the Maryville Seminary, from which he graduated in 1894. He then taught school until the fall of 1898, when he entered the Missouri School of Mines. He graduated in 1901 with the degree of Bachelor of Science, and, as the above record shows, has been connected with the same institution since that time. His record as a member of our faculty is an enviable one, and his popularity and our respect for him are both well merited. To him goes a very large portion of the credit for the new life and prosperity which M.S.M. now enjoys.

AUSTIN LEE McRAE, B.S., S.D.

Chi Phi

Tau Beta Pi

Professor of Physics.

Fellow American Association for the Advancement of Science; Member of Society for the Promotion of Engineering Education; Member Executive Council for Missouri of the National Economic League.

B.S., University of Georgia, 1881; S.D., Harvard University, 1886; U.S. Signal Service Electrical Work, 1882-89; U.S. Signal Service (Missouri State Weather Service) and Assistant Professor of Physics, University of Missouri, 1889-91; Professor of Physics, Missouri School of Mines, 1891-94; Professor of Physics, University of Texas, 1894-96; Consulting Engineer, St. Louis, 1896-99; Professor of Physics, Missouri School of Mines, 1899.



GEORGE REGINALD DEAN, C.E., B.S.

Tau Beta Pi

Professor of Mathematics.

Member American Mathematical Society; Member St. Louis Academy of Science.

C.E., Missouri School of Mines, 1890; B.S., 1891; Assistant in Mathematics, 1890-91; Professor of Mathematics, Maryville Seminary, 1891-92; Professor of Mathematics, Coe College, Iowa, 1892-93; Assistant in Leander McCormick Observatory, University of Virginia, 1893-94; Teacher of Mathematics, Central High School, Kansas City, Mo., 1894-97; Professor of Mathematics, Missouri School of Mines, 1897.



ELMO GOLIGHTLY HARRIS, C.E.

Professor of Civil Engineering

Member American Society of Civil Engineers; Author of "Compressed Air."

C.E., University of Virginia, 1882; Practicing Civil Engineer, 1882-91; Director Missouri School of Mines, 1891-92; Professor of Civil Engineering Missouri School of Mines, 1891-1901; Associate Professor of Civil Engineering, University of Pennsylvania, 1901-03; Professor of Civil Engineering, Missouri School of Mines, 1903.

VICTOR HUGO GOTTSCHALK, B.S., M.S.

Tau Beta Pi

Professor of Chemistry

Fellow American Association for the Advancement of Science; Member American Chemical Society; Member St. Louis Chemical Society.

B.S., Missouri School of Mines, 1898; Assistant U.S. Assayer, Kansas City, Mo., 1898-99; Assistant in Chemical Department, Marion-Sims Medical College, 1899; Assistant in Chemistry, Missouri School of Mines, 1899-1900; M.S., Missouri School of Mines, 1900; Instructor of Chemistry, 1901; Student University of Chicago, 1901; Cornell University, 1901-02; Professor of Chemistry, Missouri School of Mines, 1902.



DURWARD COPELAND, S.B.

Sigma Rho

Tau Beta Pi

Professor of Metallurgy and Ore Dressing.
Member American Institute of Mining Engineers.

S.B., Massachusetts Institute of Technology, 1903; Assistant to Professor Hofman and Instructor in Metallurgy, Massachusetts Institute of Technology, 1903-04; Instructor in Metallurgy and Ore Dressing, Michigan College of Mines, 1904-07; Professor of Metallurgy and Ore Dressing, Missouri School of Mines, 1907. On leave of absence 1913-14.



GUY HENRY COX, B.S., M.A., Ph.D.

Alpha Chi Sigma

Tau Beta Pi

Professor of Geology and Mineralogy

Member of California Mining Association.
Member of American Institute of Mining Engineers.

B.S., Northwestern University, 1905; M.A., University of Wisconsin, 1908; Graduate Student, School of Mines, University of California, 1905-06; Fellow in Geology, University of Wisconsin, 1907-08; Ph.D., University of Wisconsin, 1911; Instructor in Geology, University of California, 1908-09; Assistant Professor of Mineralogy and Petrography, Missouri School of Mines, 1909-11; Professor of Geology, Missouri School of Mines, 1911.





CARROL RALPH FORBES, B.S., E.M.
Sigma Rho *Tau Beta Pi*

Professor of Mining

Member American Institute of Mining Engineers.

B.S., Michigan College of Mines, 1902; E.M., 1903; Assistant in Mechanical Engineering, Michigan College of Mines, 1901-02; Assistant in Mining Engineering, 1902-03; Engineer of Victoria Copper Mining Co., Rockland, Mich., 1903-06; Mining Engineer, Michigan Copper Mining Co., Rockland, Mich., 1906-07; Engineer, Nevada Smelting and Mines Corporation, Tonopah, Nevada, 1907; Assistant Superintendent, Nevada Douglas Copper Co., Yerington, Nevada, 1908; Graduate Student, Missouri School of Mines, 1908-09; Assistant Professor of Mining, Missouri School of Mines, 1909; Professor of Mining, Missouri School of Mines, 1912.

JOSEPH WAYNE BARLEY, A.B., A. M.,
Ph. D.

Sigma Nu

Professor of English and Modern Languages.

A.B., William Jewell College, 1897; Professor of English, Hardin College, 1900-02; Graduate Student, University of Chicago, 1902-03; A.M., William Jewell College, 1905; Ph.D., University of Pennsylvania, 1911; Professor of English, Hardin College, 1911-12; Assistant Professor (in charge) of English and Modern Languages, Missouri School of Mines, 1912; Associate Professor of English and Modern Languages, 1913.



HORACE THARP MANN, E.M., M.S.

Pi Kappa Alpha

Tau Beta Pi

Assistant Professor in Metallurgy and
Ore Dressing

B.S., in Mining Engineering, Missouri School of Mines, 1908; M.S., Missouri School of Mines, 1909; E.M., Missouri School of Mines, 1910; Instructor in Metallurgy, 1908; Assistant Professor in Metallurgy and Ore Dressing, 1913.



JOSEPH HENRY BOWEN

Assistant Professor of Shop Work and
Drawing



Student, Miller School, Va., 1890-95; Rhode Island School of Design, 1896-97; Machinist for Henry Blundell & Co., Providence, R. I., 1896-97; Machinist, 1897-98; Machinist and Inspector for Providence Engineering Works, Providence, R. I., 1898-99; Foreman, Brown & Sharpe Mfg. Co., 1899-1900; Designing Special Tools and Fixtures for Providence Engineering Works, 1900-02; Instructor in Shop Work and Drawing, Missouri School of Mines, 1902-06; Assistant Professor of Shop Work and Drawing, 1906.



PAUL JULIUS WILKINS, B.S.

Instructor in Modern Languages

B.S., Michigan Agricultural and Mechanical College, 1869; Instructor in Modern Languages, Missouri School of Mines, 1877. On leave of absence, 1914.



JOHN BENNET SCOTT, B.S.

Instructor in English

B.S., Missouri School of Mines, 1907; Instructor in English, Missouri School of Mines, 1897. On leave of absence, 1914.

FREDERICK WILLIAM BUERSTATTE,
B.S., in M.E.

Instructor in Mechanical Drawing and
Steam

B.S., in M.E., University of Wisconsin,
1901; Testing Locomotives Chicago and
Northwestern Railroad, 1901-05; Draftsman,
Railroad Appliance Co., Chicago, 1905-06;
Draftsman, International Harvester Co.,
Sterling, Ill., and Whiting Foundry and
Equipment Co., Harvey, Ill., 1906-07; Chief
Draftsman American Well Works, Aurora,
Ill., 1907-09; Instructor in Mechanical Draw-
ing, Missouri School of Mines, 1909; In-
structor in Steam, 1912; Associate Editor,
The Practical Engineer, summer 1913.



EDGAR SCOTT McCANDLISS, B.S.

Instructor in Civil Engineering

B.S., in C.E., Purdue University, 1909;
Assistant Engineer, Chicago, Burlington and
Quincy Railroad, 1909-11; Assistant in Civil
Engineering, Purdue University, 1911-12;
Instructor in Civil Engineering, Missouri
School of Mines, 1912.



EDWARD HARRY McCLEARY, B.S.

Beta Theta Pi

Instructor in Physical Training

B.S., in Mine Engineering, Pennsylvania State College, 1910.

ALEXIS XAVIER ILLINSKI, B.S.

Kappa Alpha

Tau Beta Pi

Instructor in Metallurgy and Ore Dressing

B.S., in Metallurgy, Missouri School of Mines, 1910; Mine and Mill Federal Lead Co., Flat River, Mo., 1909; Chemist, Missouri State Geological Survey, 1910; Instructor in Metallurgy and Ore Dressing, Missouri School of Mines, 1912.



CHARLES LAURENCE DAKE, B.A., M.A.

*Acacia, Phi Beta Kappa, Sigma Xi,
Gamma Alpha*

Assistant Professor of Mineralogy and
Geology

Graduate State Normal School, River Falls, Wisconsin, 1907; B.A., in Geology, University of Wisconsin, 1911; A.M., in Geology, University of Wisconsin, 1912; Fellowship in Geology, University of Wisconsin, 1911-12; Assistant in Geology Williams College, Williamstown Massachusetts, 1911-12; Assistant Professor of Mineralogy and Geology, Missouri School of Mines, 1913.



WILLIAM FENN DE MOSS, Ph.B., A.M.

Masonic Club, University of Chicago

Instructor in English

Ph.B., University of Chicago, 1911; A.M., University of Chicago, 1912; Principal and Head of English Department of Decorah High School, Decorah, Iowa; Instructor in English, Missouri School of Mines, 1913.



GERALD THOMAS WILKINSON, B.A., M.A.

Phi Beta Kappa

Instructor in Modern Languages

B.A., Wabash College, 1911; M.A., Harvard University, 1912; Instructor in French, Wabash College, 1910-11; Assistant in English Composition, Wabash College, 1909-11; Instructor in Modern Languages, Missouri School of Mines, 1913.

MARTIN HARMON THORNBERRY, B.S.

Instructor in Mathematics; Station

Assistant, Mining Experiment
Station

Graduate Springfield Normal School 1906; Superintendent Stella Academy, Stella, Mo., 1909-11; Assistant in Chemistry, Missouri School of Mines, 1911-12; B.S., Missouri School of Mines, 1912; Station Assistant, Mining Experiment Station, 1912; Instructor in Mathematics, Missouri School of Mines, 1913; Graduate Student, Missouri School of Mines, 1913.



CHARLES YANCEY CLAYTON, B.S.

Kappa Alpha

Tau Beta Pi

Instructor in Metallurgy

B.S., in Metallurgy, Missouri School of Mines, 1913; Instructor in Metallurgy, Missouri School of Mines, 1913; Graduate Student, Missouri School of Mines, 1913.



JOHN CHARAVELLE INGRAM, B.S.

Theta Xi.

Tau Beta Pi

Instructor in Chemistry

B.S., Missouri School of Mines, 1913; Assistant in Chemistry, Missouri School of Mines, 1912-13; Assistant Engineer, Public Service Commission of St. Louis, 1909-11; Chemist, Missouri State Geological Survey, 1913; Instructor in Chemistry, Missouri School of Mines, 1913.



DONALD HEWSON RADCLIFFE, B.S.

Pi Kappa Alpha

Instructor in Mineralogy

B.S., Missouri School of Mines, 1913;
Assistant in Mineralogy 1911-13; Instructor
in Mineralogy and Lithology 1913.

JOSEPH STEWART IRWIN, B.S.

Tau Beta Pi

Instructor in Mineralogy

B.S., in Mining Engineering, Missouri
School of Mines, 1912; Instructor in Miner-
alogy, Missouri School of Mines, 1913.



ARTHUR FULLER TRUEX, B.S.

Delta Upsilon

Tau Beta Pi

Instructor in Mathematics

B.S., University of Rochester, 1908; Graduate Student, Missouri School of Mines, 1912; Instructor in Mathematics, Missouri School of Mines, 1913.



JESSE CUNNINGHAM, A.B., B.L.S.

Librarian

Delta Tau Delta

Member of the American Library Association; Missouri State Library Association (Secretary, 1913); Special Libraries Association.

Library Assistant, Indiana University, 1901-05; Reference Assistant, University of Nebraska, 1905-06; Law Librarian, University of Nebraska, 1906-07; Assistant in the Law Department, New York State Library, 1908-09; Municipal Reference Librarian, St. Louis Public Library, 1911-12; Librarian, Missouri School of Mines, 1912.





EDWIN KAHLBAUM
Registrar



ROBERT R. DICKERSON
Superintendent of Buildings and
Grounds

STUDENT ASSISTANTS.

CLAUDE CALVIN CUSHWA
Student Assistant in Chemistry.

AZMON THURMAN DUNHAM,
Student Assistant in Descriptive Geometry and Shop Work.

WILLARD MILLS BENHAM,
Student Assistant in Surveying.

WALTER GAMMETER,
Student Assistant in Drawing.

WILLIAM CORYELL HOGOBOOM,
Student Assistant in Physics.

FRANK LINDLEY JOHNSON,
Student Assistant in Shop Work.

MERVIN JOE KELLY,
Student Assistant in Chemistry.

ROY WILBUR HAYDEN,
Student Assistant in Mineralogy.

ELTON ARTHUR MILLER,
Student Assistant in Mine Rescue Work and Forge Shop.

FREDERICK GALLOWAY MOSES,
Student Assistant in Descriptive Geometry.

ORION DEXTER NEAL,
Student Assistant in Chemistry.

ENOCH RAY NEEDLES,
Student Assistant in Surveying.

GEORGE ELMER ABERNATHY,
Student Assistant in Mining.

DANIEL WEBSTER BLAYLOCK,
Student Assistant in Plane and Mine Surveying

JOHN WARDER SHOTWELL,
Student Assistant in Mineralogy.

‘ SENIORS ’



THE SENIOR CLASS OF 1914

Each succeeding Senior Class leaves behind it something which has its effect on the school and the student body. This something is manifested in the trend of the school itself toward better or worse, and is reflected in no small measure in the customs, life, and spirit, and general attitude which is evidenced in each class and throughout the school as a whole. So it is only natural to assume that the outgoing body of Seniors has likewise played its part and left its imprint.

It is not always an easy task to depict just exactly what parts and what imprints are attributable to each class. The resultant of student life is made up with each of the four classes as a component. The resultant is definite and easily discerned, while the components have many qualities which are common to each, although all of these qualities are not always in the same direction. However we feel that we can lay claim to one or two qualities as being the ones for which we have been striving most.

We have tried to be men. Since the days of the "Original Freshman Possum Hunt" the attitude of the class as a whole has been "Stick Together" and "Do Things." Our record will stand for itself to demonstrate our ability to do things, and we ourselves know best of our ability to stick together—we have stood by our class, every man of us. No doubt we have made mistakes, but we have tried to be fair and honest, and we have had the courage of our convictions. If we have always shown our progressivism, our loyalty, our fairness, our honesty, and our courage, who can deny but that we have left our imprint?

Yet, as has so often been said, and just as all the rest of them before us have done, we are now going "out into the world." But believe me, that saying has a somewhat different meaning now from what it has heretofore, for it now applies to us. We can realize now the feelings that all the other fellows have had when they have left behind them the lives and associations and endeavors which were so dear to them. You Freshmen get the idea, and enjoy to the fullest the next few years of school life before you, and get the most out of them, for we all certainly realize the value of such advice now.

Yes we are going—but we are going to take with us some of the best memories any fellows ever had. They are of the best part of our lives, and they concern everybody and everything in connection with this school. And in addition we will take with us all those qualities which will make us Right—and every single man of us will Make Good—for our Alma Mater turns out Men.

SENIOR CLASS OFFICERS.

President	-----	E. R. Needles
Secretary	-----	L. J. Boucher
Treasurer	-----	L. J. Boucher

STUDENT COUNCIL REPRESENTATIVES.

R. M. Simrall,
A. F. Truex,
C. C. Cushwa,
C. W. Hall.





GEORGE ELMER ABERNATHY.

Rolla, Missouri.

General Science.

Trowel Club.

Rollamo Board—4.

Mining Association.

Class Football—2.

Varsity Squad—3.

St. Pat's Committee.

Student Assistant in Mining.

"Abbie" is one of our men of experience. He is married and has had experience as mine foreman in Old Mexico. He is one of the old reliable sort, and will make good in after years.



LEONIDAS JAMES BOUCHER.

Marshalltown, Iowa.

Mining Engineering.

Sigma Nu.

Quo Vadis.

P.B.C.

Student Council—2.

"M" Football—3.

St. Pat's Committee.

Annual Show—3.

Secretary M.S.M.A.A.—3.

Class Secretary and Treasurer—4.

"Bush" has fussed the girls from Lebanon to St. James. He is a strong advocate of the good roads movement in Phelps County, and the author of "Motoring in the Ozarks." He is in for everything. It is rumored that he will leave for Los Angeles the day after Commencement.

MIGUEL LEON CEPEDA.
Cuatro Cienegas, Coahuila, Mexico.

Mining Engineering.
Y.M.C.A.
Mining Association.

"Speedy" is not as fast as his name indicates, but was fast enough to amuse the fellows on the Junior Trip. He did the Spanish fandango, and insisted that his straw hat was "isolated" instead of "insulated." Though things come slowly to him, he is like the fabled tortoise, and is liable to pass some of the faster men in the long run.



LAWRENCE COLLINS.

Quincy, Illinois.
Mining Engineering.
Rollamo Board—4.
Quo Vadis.
Mining Association.
Athletic Manager—4.
St. Pat's Committee.
Football Banquet Committee.
Grubstakers.

"Mike" is famous for his short speeches, his smile, and his interpretation of the Shakespearean Drama. He was presented with a gold watch by the football team the night of the Football Banquet, in appreciation of his efficient work as Athletic Manager.





GERARD HOOPES COWMAN.

Bellefontaine, Ohio.

Mining Engineering.

Kappa Alpha.

Mining Association.

"M" Track, 1, 2, 3, 4.

Captain Track—3.

St. Pat's Committee.

Class Vice-President, 1, 2.

"Jerry" is with us again after several months practical experience out west, and needless to say we are glad to get him back. He is a "speed merchant" of an exceptional type, and put us on the map in Track, at St. Louis last Spring. When it comes to doing impromptu tailoring work on Ore Dressing belts, he prefers to plead "Not Guilty."



CLAUDE CALVIN CUSHWA.

Independence, Missouri.

Mining Engineering.

Sigma Nu.

Tau Beta Pi.

Student Council—4.

St. Pat's Committee.

"M" Baseball—3.

"M" Football—4.

"Cush" is a native son of Independence and he wears an independent air. A man of rare ability, he has proven himself a stone wall of defense in the line, and at the same time maintained a Tau Beta Pi standing, all of which has not seriously interfered with his reading all the latest novels and indulging in numerous "Amorous Adventures." If you wish to retain his friendship, never approach him with "Claudie."

CLYDE VIRGIL DOWNING.

Kirksville, Missouri.

Chemistry and Metallurgy.

Mining Association.

Kirksville State Normal School, 1902.

"Waal, now," is Downing's usual preamble to a speech. He takes his time about everything, but the habits of the school teacher cling to him still. He is usually right when he makes a statement. Downy also belongs to the "Married Man's" club of the school, and Downing, Jr., bids fair to follow in Dad's footsteps, and be a famous Mining Engineer.



JOSEPH COOPER FINAGIN, Jr.

Rolla, Missouri.

Chemistry and Metallurgy.

Sigma Nu.

Y.M.C.A.

Mining Association, President—4.

"Joe" is the third of the married contingent of our class and like Downing and Abernathy boasts of a youngster. Besides having attempted to annihilate the man who "sassed" Garrett at the St. Louis University game in 1912, he has also tried on various occasions to organize and perfect the Mining Association. He dislikes having his accuracy with the slide rule questioned, and really doesn't care to be called a "good guesser" in Electrical Machinery. As a photographer he has long since graduated from the amateur class, and his photos of school events will bring back fond memories to all of us in after years.



THADDEUS REAMY GOLDSBOROUGH.

Washington, D. C.

Chemistry and Metallurgy.

Mining Association.

Football Banquet Committee—4.

St. Pat's Committee—3.



Hailing from Washington, D. C., comes "Teddy Roosevelt" Goldsborough, a man whose jaws never grow tired of masticating the luscious gum. No wonder that "Thaddy" receives a perfect grade in quizzes on the jaw type of crushers. "Goldy" is a man of many schools and many accomplishments, and the better you know him the better you realize his abilities. He and Finagin were the "Guns" in Electrical Machinery, but he is also a "shark" in everything else. In his hands the slide rule can do anything but lie down and roll over, and he says he is confident he can make it do this with a little practice.

CLYDE WILLIS HALL.

Pleasanton, Kansas.

Chemistry and Metallurgy.

Sigma Nu.

Student Council—4.

"M" Baseball, 2, 3.

Junior Banquet Committee—3.

Football Banquet Committee—4.



"Bill" hails from Kansas, and is not ashamed to admit it. He loves the dear old State, but says "salt mining" is not his line. He is not "afraid to come home in the dark," and thinks nothing of walking a couple of miles if there is a pretty girl at the other end. If Baron Munchausen were alive he would certainly have to look to his laurels, for Bill has the ability to put them over with the most innocent and serious countenance.

HOWARD GOVE HALSEY.
Kansas City, Missouri.

Mining Engineering.
Pi Kappa Alpha.
Minstrel Show—1, 2.
Junior Banquet Committee.
Senior Banquet Committee.

"Gove" has a craving for society, and is indeed a most gregarious animal. Has an ambition to be a hero (capital H, please,) but says he is always hampered by "Mose" being in the way. Has an insatiable appetite for magazines, and even two drugstores and the Post Office are unable to keep him supplied. He is one of those quiet, unobtrusive fellows, always ready to shoulder his share of the work, and is sure to do it to the best of his ability.



SIDNEY RAYMOND HATCH.
Rolla, Missouri.

Civil Engineering.
Quo Vadis.
Mining Association.
Rollamo Board—4.
Student Council—3.
Football Banquet Committee—4.
Grubstakers.

"Senator" will always be remembered for his "speed" during his Freshman and Sophomore years. As Professor Harris says, "Knowing Mr. Hatch as well as I do, I know that he has not studied the assignment." He doesn't like to have the Barbs called a "machine." The only man of whom "Doc Lewie" kept a complete diary. "Senator" has will-power out of the ordinary, and some day it will serve him in good stead.





WILLIAM CORYELL HOGOBOOM.

Los Angeles, California.

Mining Engineering.

Sigma Nu.

Tau Beta Pi.

Rollamo Board—4.

Mining Association.

"Bill" believes in versatility. In other words a man must be a scholar, a bum, a society leader, fresh air crank, faddist, and everything else, according to "Bill". This prime mustache raiser was born in Wahoo, Nebraska. Only to his intimate friends, does he impart the mystic meaning of the name of his birthplace, for 'tis far too sacred for the "Hoi Polloi." "Bill" is a "gun" in everything, and "double barreled" in some things.



MERVIN JOE KELLY.

Gallatin, Missouri.

General Science.

Sigma Nu.

Tau Beta Pi.

Y.M.C.A., President—3.

Y.M.C.A., Treasurer—4.

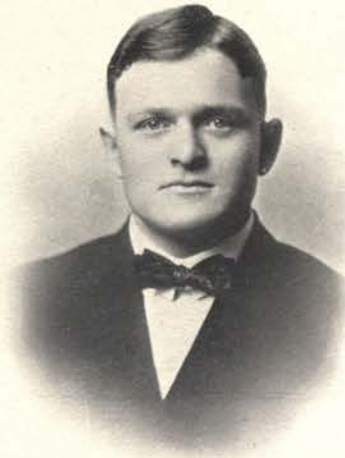
Assistant in Chemistry—3, 4.

"Kelly" is a demon for work. The mysteries of "Modern Business" have no terrors for him. He does everything well and slights nothing, not even his fussing, in which he is as regular and conscientious as in his school work. He seconds Professor Gottschalk in speed of articulation, and we are of the opinion that he thinks even faster than he talks. He dislikes being chided for his extreme youth, and in a moment of confidence admitted that he could grow a mustache if he had the time.

LLEWELLYN LODWICK.
Ottumwa, Iowa.

General Science.
Rollamo Board—4.
Class President—1, 2.
Student Council—3.
St. Pat's Committee—3.
"M" Football—1, 2, 3, 4.
"M" Basketball—1, 2, 3.
Captain Basketball—3.
"M" Track—1.
"M" Baseball—3.
Beanery.

"Ole" is popularly thought of as a son of Sweden, although we have it on good authority that he comes from Wales. His ancestors came from Penryddleccyn, which accounts for his slow and easy-going ways. We believe him to be the possessor of more "M's" than any man that has ever graduated from M.S.M., and he deserves them all. Ole refuses to be "kidded" and is strictly "non-partisan." He is of exemplary habits, and is the sort we like to have with us.



ROY NICOLL McBRIDE.

Salesville, Ohio.
Mining Engineering.
Pi Kappa Alpha.
Mining Association.

"Mac" came to us from the New Mexico school of Mines. He has had more experience and seen more of the world than most us ever will. His smile is a thing of beauty and a joy forever. He is a lover of merry anecdotes, and has an inexhaustible fund of clever tales himself. He is famous for his deep-seated love for Calculus.





GILBERT FRANK METZ.

St. Louis, Missouri.

Mining Engineering.

Theta Xi.

P.B.C.

Mining Association.

Mandolin Club.

St. Pat's Committee.

Football Banquet Committee—4.

Beanery.

"Shorty" is famous for originating that saying "That's right, you're wrong!" His knowledge of the anatomy of steam boilers is a rare and wonderful thing, and he talks learnedly of the Keokuk Dam, High Tension Currents, Capacities, and other weird subjects much too deep for anyone save himself and "Doc" McRae. He has a rapid action smile, which almost approaches a grin, and his ability as a raconteur is not to be despised. No matter what turns up, Shorty can always be counted on.



JULIUS CHARLES MILLER, Jr.

Joplin, Missouri.

General Science.

Kappa Alpha.

Quo Vadis.

Rollamo Board—3.

"M" Football—3, 4.

"M" Baseball—2, 3, 4.

Captain Baseball—4.

While "Eggie's" heart may be in the keeping of some fair maiden, he knows how to retain possession of his head at all times. He has contributed in no small degree to M.S.M's., reputation in athletics. As a high pressure mill designer he has no equal, and thirty minutes is his record for a complete set of mill plans. He is one of the "rough and ready" sort, but underneath it all has a heart equal to the best, and is the kind we like to meet.

FREDERICK GALLOWAY MOSES.

Kansas City, Missouri.

Mining Engineering.

Pi Kappa Alpha.

Mining Association.

Minstrel Show—1, 2.

"Freddie" has had practical experience at Cobalt and Garfield, and says he expects to "tramp" mine for three or four years. Mose is a strong believer in the "intellectual atmosphere," and thinks it advisable to fuss wherever he can best absorb it. "Me and Halsey," is his pet expression, and they are always to be found together. He is a hard worker, and always produces the goods.



ORION DEXTER NEAL.

Linton, Indiana.

Chemistry and Metallurgy.

A.B. Indiana University.

Alpha Chi Sigma.

Student Assistant in Chemistry.

"Dexter" is with us from "Old Indiana," and brings with him a knowledge of much chemistry and a remarkable ability in the art of coaxing the shy and tender mustache out to the light of day. He is the only man who has ever equaled the "Czar's" hirsute adornment, and according to some (those partial to Titian Red) he has even surpassed it. He is famous for the "Transportation Company" which he and Beeghly organized, and for the judgment he displayed in dropping Electrical Machinery at the end of the first semester. His researches into the art of Oil Flotation, while not exactly agreeable to "Doc" Thornberry, are sure to be productive of valuable results. We wish him the best of success..





ENOCK RAY NEEDLES.

Kansas City, Missouri.

Civil Engineering.

Pi Kappa Alpha.

Tau Beta Pi.

Quo Vadis.

Rollamo Board—4.

Student Council—2, 3.

Class President—4.

Interlocutor, Minstrel Show—2.

Student Assistant in Surveying—2, 3, 4.

Football Banquet Committee—4.

St. Pat's Committee.

"Enoch," as is plainly seen from the imposing list of activities and honors to his credit, is a man of versatility. Never radical but always firm and fair in his beliefs, his impartiality and fairness in everything have made him one of the best liked men in school. Has never lost his head, but speaking of his heart—. Judging from his successes during his school career we can safely predict a successful future for "Enoch."



THOMAS C. ROBSON.

Potosi, Bolivia, S. A.

Mining Engineering.

Mining Association.

"Robby" is a versatile and widely accomplished man. The list of his varied activities and degrees reads like a page from Don Quixote, and only a native son of Spain could make head or tail out of them. He is Laborero de Minas y Beneficiada de Metals, 1909, from L'Escuela de Minas de la Universidad de Potosi, Bolivia. He entered here as a Sophomore from Columbia. He was El Captain del Association Football y Gym. Team at Potosi. "Robby" was protector of Cepeda on the Junior Trip. He is a good worker and a good fellow, and his eyes shine like diamonds when the word "girl" is mentioned.

RILEY MARSH SIMRALL.

Liberty, Missouri.
Mining Engineering.
Kappa Sigma.
Tau Beta Pi.
P.B.C.

Rollamo Board—4.
Mining Association.
Class President—3.

Chairman St. Pat's Committee.
Student Council, President—4.

"Riley" hails from William Jewell. Though from a Theological School to a Miners School is quite a change, Riley is trying his best to live up to the changed conditions. His favorite occupation is punching holes in a granite block, trying to see which is the harder, the drill or the granite. He is famous for the "black eye" which he gave Rolla's so called "four hundred." "Too big a man for school politics." Taken all in all, Old Erin has good cause to be proud of him, her foremost representative at M.S.M.



CLINTON D. SMITH.

Austin, Minn.
Mining Engineering.
Pi Kappa Alpha.
Mining Association.

"Seedy" comes from the North, and many think that he is as cold as the winds that blow from there, but in reality his heart beats warm under the frigid exterior. Has been making an intensive study of the methods of operating the modern hotel, some think with a view of buying or otherwise acquiring one when he graduates. Though his quota of the "midnight oil" is rather a small one, Seedy always manages to stand well up in the class.





EDMOND OTIS STOLIKER.

Creston, Iowa.
Mining Engineering.
Quo Vadis.
Rollamo Board—3.
Mining Association.
"M" Football—2, 3, 4.
Captain Football—4.
St. Pat's Committee.
Class Treasurer—3.
Grubstakers.

"Stolly" came to us from Des Moines College, with a "reputation" as a football player, and has more than lived up to it. His unfortunate injury in the Washington Game was regretted by every one of us. Besides his loss of strength and loss of time in school, his confinement lost him his heart. Here's hoping he will soon be in good shape again. "This is a N O N—fraternity meeting!"



THOMAS RAE THOMAS.

St. Louis, Missouri.
Mining Engineering.
Kappa Sigma.
End man, Minstrel Show—1, 2.
Mandolin Club—1, 2, 3, 4.
German Band—1, 2, 3, 4.
Director of German Band—3, 4.
Class Football—1, 2.
Junior Banquet Committee—3.
Football Banquet Committee—4.
Annual Play—3.

"Shorty" has always been an ardent advocate of the "charms of music to soothe the savage breast," and was prone to break out with a barbershop tenor whenever he heard the tune-ful strains of the latest popular song. When it came to fussing, Shorty brooked no rivals for first honors, and it was no unusual sight to see him strolling up Rolla's main street with three fair damsels in tow. Was always the life of every occasion at which he was present, and could be counted on to enliven all the dull moments.

ARTHUR FULLER TRUEX.

Rochester, N. Y.

Mining Engineering.

B.S., University of Rochester, 1908.

Delta Upsilon, Tau Beta Pi, Quo Vadis, P.B.C.

Mining Association, Treasurer—3.

Student Council—4.

Cheer Leader—4.

Toast Master—Junior Banquet—3.

Toast Master—Football Banquet—4.

Director Annual Show—3.

St. Pat's—3.

Instructor in Mathematics—4.

Beanery.

"True" has the happy faculty of making everything he enters into a success. He will long be remembered for his impersonation of St. Pat, our Patron Saint, and the introduction of the wild and wicked Cabaret Show to our annual banquets. He was persona non grata for several weeks after the Football Banquet, to the married women of Rolla, for they held him responsible for their husbands' misdemeanors on that memorable occasion. His accomplishments are without number, and he is always willing to make use of them in any way for the good of the school.



WALTER HENRY WAGER.

Newtonia, Missouri.

Mining Engineering.

Mining Association.

Grubstakers.

"Dad Gum It!" is one of our most famous characters. He and his corn cob pipe are inseparable. Has been known in all seriousness to claim that the "Neosho Times" is a much better paper than the "St. Louis Republic," and proves his loyalty by reading it on any and every occasion. His nervousness is truly remarkable, and he has been known to jump at least twenty feet from a standing start when sufficiently startled. He is the school's Mineralogy "Shark," and has even been known to distinguish various rocks in the dark, using his sense of touch alone. "Wag-ger" will be missed by all of us.



THE ROLLAMO



‘JUNIORS’



JUNIOR CLASS HISTORY.

When we entered school in the autumn of 1911, our class consisted of some thirty five men. We passed creditably through the ordeal that awaits all Freshmen. On Green Cap Day we fell before the superior strategy of the Sophomores only after the hardest battle in the history of the school. We accepted our defeat in the proper spirit, donned our "postage stamps," and laid aside forever all feelings of enmity toward our conquerors at their smoker given that same night.

In our Freshman year we made a deep mark in athletics and in our school work. We furnished some of the best men in football, baseball, basketball and track; while our grade cards showed a sufficient number of the coveted high marks.

Naturally we anticipated a great deal of pleasure in our Sophomore year in guiding the feet of the Freshies along the paths that we had trod. But when we found that they had more than three to our one, it became evident even to the most optimistic of our number that we must use diplomacy and not force. We were so far successful as to emerge from our difficult situation with our dignity intact and the school traditions upheld. Some of the notable events in our Sophomore year were, the football game with the Freshmen, in which every member of our class put on the "moleskins" in a supreme effort for victory; and the class trip to Newburg on Inauguration Day.

We are now in our Junior year—the hardest of all, and yet the best. Although every space on our schedule is full we are still striving along all lines of college endeavor. St. Patrick's Day of this year is a result of our labors and you who read this are the judges as to how our plans worked out. Notwithstanding our busy days, we still find time for pleasures occasionally, as our Class Banquet and Class Smoker will testify.

Of the original thirty five men who entered in 1911, scarcely a full dozen remain. Although their places are to some extent filled by new men, we can but give a sigh of regret for the good fellows—Aves, Schwegler, Elayer, Lyons, Hayden, and many others—who were with us then but are now scattered over the West working in their chosen profession.

Throughout the year of our attendance we have done all in our power for the good of the school. When we return next year as Seniors, we expect to continue our endeavors to repay in some measure the good we have received from our long-to-be-remembered days as Miners.

JUNIOR CLASS OFFICERS.

President	Joseph B. Cole
Vice-President	Ernest H. Reubel
Secretary	Frank L. Johnson
Treasurer	Daniel W. Blaylock
Sergeant-at-Arms	A. L. Kaplan

STUDENT COUNCIL REPRESENTATIVES.

W. Gammeter,

J. R. Maher,

T. P. McCague.



JUNIOR CLASS ROLL.

Benham, Willard Mills	Elvins, Missouri
Blaylock, Daniel Webster	Flatriver, Missouri
Chaney, Adrian Byron	Haileyville, Oklahoma
Cole, Joseph Bryant	Joplin, Missouri
Cummings, Lester Meriken	St. Louis, Missouri
Damotte, Edward Victor	Rolla, Missouri
Elliott, William	St. James, Missouri
Erskine, Greene	St. Louis, Missouri
Fernandez, Arturo C.	Monterey, Mexico
Finley, Delbert Dale	San Marcia, N. M.
Gammeter, Walter	St. Louis, Missouri
Griffin, Roy Watson	Cleveland, Ohio
Hamm, Carl	Germany
Hanni, Frederick Henry	Troy, Missouri
Hayden, Roy Wilbur	Muncie, Indiana
Johnson, Frank Lindley	Rolla, Missouri
Kaplan, Abe Lew	St. Louis, Missouri
Leavitt, Joseph Edwin	Houston, Missouri
Lyons, Leo Daniel	Springfield, Missouri
Maher, John Ralph	Rolla, Missouri
McCague, Thomas Purcell	Rolla, Missouri
Reubel, Ernest Hertel	St. Louis, Missouri
Schroer, Edward Albrecht	Clayton, Missouri
Shotwell, John Warden, Jr.	St. Louis, Missouri
Simcox, Ivor Jeffries	Glasgow, Missouri
Trent, Albert Leo	Rolla, Missouri
Wilkins, Ralph Edward Triscuit	Idaho Springs, Colorado
Wilson, Homer Marvin	Rolla, Missouri

THE ROLLAMO



THE ROLLAMO



'SOPHOMORES'



SOPHOMORE CLASS HISTORY.

"What was that!"

St. Peter awoke with a start and strained his saintly ear to listen to the ominous sounds which were welling up from below. Again they came. With a mighty bound His Saintship leaped from his golden couch and sped down the main celestial thoroughfare to the Golden Gates.

Louder and more ominous grew the sounds. The heavens trembled with the rumble of wheels and the cries of the approaching host. Nearer and nearer came the sounds until at last above the din and rattle of the wheels, the old Saint could hear the following yelled in thunderous tones as by a mighty host:

'Skee, Rye, Rip, Roar!
One, Six, Sophomore!
'Skee, Rye, Rip, Roar!
One, Six, Sophomore!

A calm smile spread over the saintly countenance of St. Peter and he gave a sigh of relief. He knew that it was only the famous class of 1916 of the Missouri School of Mines and Metallurgy at Rolla, Mo., seeking entrance to the Elysian Fields.

On they came. They numbered some sixty or seventy fellows, the majority of whom were riding. And such a conveyance as they had. It was a large wagon of the familiar farm-wagon type and drawn by two horses. At the rear end of the wagon was a queer mechanical contrivance. The Old Saint chuckled to himself as he recognized it as a—well, it was that self-same vehicle which the class of 1916 had made famous in the 1913 St. Patrick's celebration.

At last they were outside the gates and all was quiet. Out of the throng stepped a husky young lad who introduced himself as "Kelly" Miller, practical coal miner from Illinois and President of the Class of 1916, the members of which organization were at that time busily engaged in treading on each others toes in their eagerness to get a glimpse of the celestial gates, a sight many had given up all hopes of long ago.

A little group of five next stepped forward. They each wore a nifty golden sweater with a silver "M" on the breast. They were promptly introduced as the Class of 16's contribution to the record breaking football season of 1913. The men were E. A. Miller, W. W. Kiskaddon, Hubbard, John Cole, and "Buck" Mountjoy, captain-elect for 1914.

But what was that next bunch? It was composed of about fifteen fellows, so covered with mud that their features were unrecognizable. It turned out that they were McCartney, Kamp and the rest of that valiant crew who one day severely trounced ye little Freshmen in the gentle game of football.

The next thing belonged to the Class of 1916 purely by right of conquest. It was a large angora goat led by "Senator" Brown and Wornall. The sides of the goat were adorned with banners bearing the vivid green motto "We got the Freshies' Goat."

At last the Old Saint was convinced of the worth of '16. He opened the gates and the class of 1916, wagon, goat, and all trooped into that heaven where there are no Physics exams, Calculus, Faculty, Freshmen or other horrible things, but where life is one grand continuous performance of banquets, bumming trips, and perhaps (Oh! Shades of Days gone by) keg parties.

SOPHOMORE CLASS OFFICERS.

President.....E. A. Miller
Vice-President.....L. W. McKinl y
Secretary and Treasurer.....Myron Skidmore

STUDENT COUNCIL REPRESENTATIVES.

J. G. Galbraith,
J. J. Dowd.



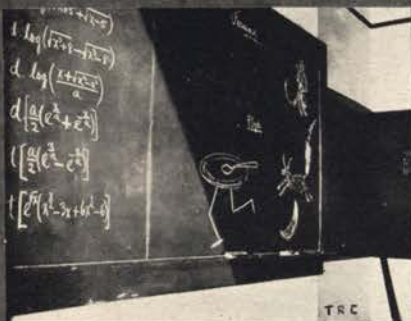
SOPHOMORE CLASS ROLL.

Adams, Bernard William	Hamilton, Missouri
Adams, Williams Clyde	Chicago, Illinois
Allen, James John	St. Louis, Missouri
Arpe, Edward William	St. Louis, Missouri
Ashdown, Byron Lee	St. Louis, Missouri
Beeghley, W. D.	Rolla, Missouri
Bennett, Roy Linwood	Raton, N. Mexico
Beyer, Emil	St. Louis, Missouri
Bower, Clyde Walter	Sedalia, Missouri
Boyle, Wallace Haley	Centralia, Missouri
Brown, James William	Rolla, Missouri
Burg, Robert Stanley	Morenci, Arizona
Campbell, Eugene Wallace	Carthage, Missouri
Casanovas, Juan Rafael	Berecoa, Cuba
Cole, John Thomas	Fredericktown, Missouri
Craig, Robert	Osage City, Kansas
Dean, Reginald	Rolla, Missouri
Deutman, Earl George	Rolla, Missouri
Dowd, James Joseph	St. Louis, Missouri
Dunham, Azman Thurman	Craddock, Missouri
East, Mervin Glazier	Rolla, Missouri
Ehlers, Louis Wilmer	Baltimore, Maryland
Erskine, Lucian	St. Louis, Missouri
Galbraith, John Gray	Waverly Mills, S. C.
Gannon, Kenrick Irving	St. Louis, Missouri
Gold, Charles	St. Louis, Missouri
Grotts, Fred	Raymond, Illinois
Hanrahan, James	Rolla, Missouri
Harrington, Arthur Brent	Maplewood, Missouri
Head, James Lawrence	Moberly, Missouri
Heman, Frederick Richard	Fort Dodge, Iowa
Heimberger, Harry Tobias	Rolla, Missouri
Hoffman, John	Rolla, Missouri
Hoover, L. M.	Rochester, Indiana
Hoppock, Louis Needham	Lebanon, Missouri
Hubbard, Harold Jelleffe	Rolla, Missouri
James, Floyd Dixie	St. Louis, Missouri
Johnson, Gunnard Edmund	Great Falls, Montana
Jones, Earl Ambrose	Rolla, Missouri

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Kamp, William Henry	St. Louis, Missouri
Kiskaddon, Walter William	St. Louis, Missouri
Klepel, Yaro	St. Louis, Missouri
Krebs, Joseph Jackson	Lake Charles, Louisiana
Lawrence, Nathaniel Norrise	St. Louis, Missouri
Lee, James Thomas	Rolla, Missouri
Marsh, Harold	Thayer, Missouri
Martin, Thurman Ephraim	Lancaster, Missouri
Miller, Elton Arthur	Edwardsville, Illinois
Miller, John Charles	St. Louis, Missouri
Miller, Robert	Cairo, Illinois
Mitt, Otto Robert	Joplin, Missouri
Mize, Charles Rodwick	Independence, Missouri
Mountjoy, Richard LeRoy	Webb City, Missouri
McCartney, William Henry Jr.	Webster Grove, Missouri
McKinley, Lionel William	Fort Dodge, Iowa
Neustaedter, Harold Arthur	Jersey City, New Jersey
de la O, Alejandro B.	Chihuahua, Mexico
Perry, Eugene Sheridan	Rolla, Missouri
Sailer, Edward Louis	Cape Girardeau, Missouri
Scheurer, LeRoy Robert	Wichita Falls, Texas
Schuman, John	Rolla, Missouri
Shinn, Luther Gay	Okmulgee, Oklahoma
Siegrist, Clifford Joseph	Festus, Missouri
Skidmore, Myron	Carlisle, Illinois
Smith, Virgil X.	Rolla, Missouri
Stifel, Carl	St. Louis, Missouri
Ten Broeck, Baarent Jr.	St. Louis, Missouri
Tompkins, Edwin See	Rolla, Missouri
Torp, Charles Albert	Higginsville, Missouri
Turnbull, Louis Allen	St. Louis, Missouri
Ude, George Edgar	St. Louis, Missouri
Vogel, Herman	St. Louis, Missouri
Weiberg, Earl Burdette	Springfield, Missouri
Wenner, Paul Howard	Bartlesville, Oklahoma
Woolrych, Hugh Edmund	St. Louis, Missouri
Worley, James Alexander Jr.	San Antonio, Texas
Wornall, Richard Bristoe	Liberty, Missouri
Wright, Jefferson Davis	St. Louis, Missouri

THE ROLLAMO



‘ FRESHMEN ’



FRESHMEN CLASS ROLL.

Abeln, John Frederick, Jr.	St. Louis, Missouri
Aid, Kenneth	Gallatin, Missouri
Ambler, Harry Atwood	St. Louis, Missouri
Bandy, Roy Lamkin	Aurora, Missouri
Barker, Lyle Maxon	Chamberlin, South Dakota
Barton, Joe	Montgomery City, Missouri
Bauman, John Livingston	Springfield, Missouri
Bayha, Wilson	St. Louis, Missouri
Bock, James Henry	Muskogee, Oklahoma
Bowles, Walter Frady	Neodesha, Kansas
Brown, John Stafford	Milford, Missouri
Burden, Louis	St. Louis, Missouri
Burkhart, Edgar	Macon, Missouri
Canavan, Thomas Jefferson	East St. Louis, Illinois
Carr, Louis	Liberty, Missouri
Clark, Frank Elmer	Hamilton, Missouri
Cooper, Richard Dwyer	St. Louis, Missouri
Cowan, David Lindsay	Edgar Springs, Missouri
Cowen, Warden Henry	Beardstown, Illinois
Dale, Ralph	Herrin, Illinois
Dolman, Phillips Brooks	St. Joseph, Missouri
Dunavan, Harry Dallas	Kansas City, Missouri
Elfred, Frank Stillman Jr.	St. Joseph, Missouri
Evans, James Herschel	Wellington, Kansas
Farmer, Raymond Louis	Lebanon, Missouri
Freeman, Earl	St. Louis, Missouri
Freudenberg, Walter Harry	St. Louis, Missouri
Gerber, Theodore Christian	Washington, D. C.
Greenberg, David	Kirkwood, Missouri
Hampsch, Oswald Harold	Henderson, Kentucky
Harlowe, Leslie Steele	Covington, Indiana
Harrison, Guy	Vichy, Missouri
Heimberger, Karl William	Rolla, Missouri
Herivel, H. L.	El Oro, State of Mexico, Mexico
Hippard, Clemence William	Belleville, Illinois
Hostetter, Frank Linney	Osceola, Missouri
Houston, Homer James	Newburg, Missouri
Huff, Charles Mayfield	Ironton, Missouri
Kahlbaum, William	Rolla, Missouri
Kaplan, Louis	St. Louis, Missouri
Keeling, Orval	Rolla, Missouri
Klein, Carl E.	Farmington, Missouri
Kluge, Harry Albert	Collinsville, Illinois
Kost, George	Joplin, Missouri

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Kublin, George	St. Louis, Missouri
Langdon, Albert Jewett Jr.	Ironton, Missouri
Litsch, Charles William	Perryville, Missouri
Lyons, Robert	Springfield, Missouri
Martin, Thomas Herbert	Pocahontas, Arkansas
Meador, Carlos Delmar	Keokuk, Iowa
Milford, Thomas Fry	St. Louis, Missouri
McComb, William Randolph	St. James, Missouri
Nevin, James Raymond	Ottumwa, Iowa
Pape, Paul Frederick	Cape Girardeau, Missouri
Peach, Frank W.	El Paso, Texas
Planchon, Oliver	Monette, Missouri
Pool, Ray Fraim	Sherman, Texas
Porter, James Roy	Newburg, Missouri
Powell, William Clark	Rolla, Missouri
Pugh, James Willard	Kansas City, Missouri
Raible, Joseph Christopher	Hannibal, Missouri
Rice, Hugh Prentice	Rolla, Missouri
Reilly, John Gay	St. Louis, Missouri
Ritter, Norton Elijah	Joplin, Missouri
Robards, Robert Russell	Miami, Oklahoma
Rossman, Kenneth Van Bergen	St. Louis, Missouri
Sanguinet, Edwin Heinze	St. Louis, Missouri
Scanlon, Frank Daily	Newburg, Missouri
Schiermeyer, Harry J.	St. Louis, Missouri
Shaw, William Allen	St. Louis, Missouri
Shayes, Fred Pine	Rochester, N. Y.
Shipley, John Joshua	Kansas City, Missouri
Shotwell, Phillip Bassett	St. Louis, Missouri
Smart, Robert Hames	Osage City, Kansas
Stokes, Ray	Oklahoma City, Oklahoma
Tate, Benjamin Edward Jr.	St. Louis, Missouri
Teas, Howard Jones	Freeport, N. Y.
Underwood, Clifford Boenger	Rolla, Missouri
Usher, Benjamin Franklin	St. Louis, Missouri
Velasco, Rafael Esteban	Monterey, N. L., Mexico
Velldner, Clarence Irving	St. Louis, Missouri
von Harten, Frederick Bernard	St. Louis, Missouri
Walsh, Thomas Pat. Francis	St. Joseph, Missouri
Weeks, Albert Lemont	Arenyville, Illinois
Wilson, Goerge Baldwin	Mt. Grove, Missouri
Wilson, Joseph	St. Louis, Missouri
Wood, John Skinner, Jr.	Springfield, Missouri
Wyant, Ward Byron	Rolla, Missouri
Young, John Toomer	Rolla, Missouri

THE KOLLAMO



SPECIAL STUDENTS.

Allen, Lillian M.	Rolla, Missouri
Bland, Clark C.	Rolla, Missouri
Bullock, Elzer Anderson	Marionville, Missouri
Chapman, H. A.	Warrensburg, Missouri
Kennedy, Roxie	Rolla, Missouri
Niles, Claire E.	Rolla, Missouri
Powell, Adele, S.	Rolla, Missouri
Powell, Letitia S.	Rolla, Missouri
Tyson, Jens Jensen	Rolla, Missouri
Westlake, Stella	Rolla, Missouri
Kayser, Edwin Alexander	St. Louis, Missouri
McNely, E. J.	Alton, Illinois
Schmidt, John Norman	Chicago, Illinois

GRADUATE STUDENTS.

Clark, W. D.	Rolla, Missouri
Clayton, Charles Yancey	Rolla, Missouri
Dean, Hazel	Rolla, Missouri
Dunn, Theodore S.	Rolla, Missouri
Elmore, Carlos E.	Rolla, Missouri
Johnson, H. A.	Brookfield, Missouri
Mix, W. B.	Hailesboro, New York
Quinn, M. V.	Penn Yan, New York
Thornberry, Martin Harmon	Rolla, Missouri
Williams, David E.	Bynomville, Missouri

In Memoriam



Walter Guy Martin

Class of 1896

John B. Pfeiffer

Class of 1909

THE ROLLAMO BOARD

1914

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F. L. Johnson
1914

THE ROLLAMO



EDITORIAL.

Many times over has it been considered just what should appear under the above heading. Finally the thought came that this should not only apply, but should also mean something to our work "The Rollamo" in its relation to our school, and in its relation to ourselves as members of the student-body. We do not wish to appear as preaching; the endeavor has been made to be fair and broad-minded and to have only the best interests of M. S. M., at heart. And will the reader please remember that very likely our own shortcomings had something to do with what is said. Conditions are not expected to be changed a very great deal because of what is written here, but we have submitted the following suggestions for further thought:

TO THE STUDENT-BODY.

Remember that The Rollamo is your book.

You are primarily responsible for what it is.

Assist it to represent you and your school to the best advantage.

As the old saying goes "If you cannot boost, don't knock."

If you have to antagonize, use discretion.

Be selfish, always, concerning your Alma Mater, and the things that represent Her, whether it is the football team, the Rollamo, or what not.

Don't be selfish for yourself or any organization.

In other words, have the proper School Spirit and cut out politics.

P. S. If the above remarks do not apply to you, you are to be commended. If they do apply to you, well,—Have a thought!

TO THE ROLLAMO BOARD.

Start early; you will find it to be a good idea.

Let everybody work; stick together; help each other.

Remember that the book belongs to your Alma Mater, so do Her justice.

Consider the Student Body—forget about yourself, or any class or any organization.

Be businesslike—get the money, and take care of it.

Ads, photos, and cuts will delay your book the most—get them in early.

Good copy cannot be secured on short notice—be working on it all year.

If the 1915 Rollamo is not a success, be able to say that you did your best—then it will be a success.

Be on the job early and late.

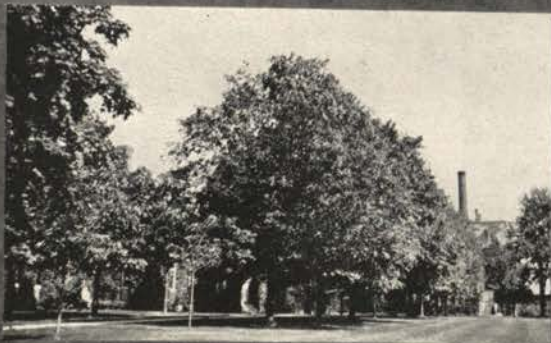
Should the above suggestions be adopted, we would have rather ideal conditions around here, and who ever saw anything like that anywhere. But who can deny but that such conditions would result in the proper sort of a book?

In connection with this 1914 Rollamo, a very great deal of credit must be given to Mr. A. F. Truex and Mr. M. J. Kelly for the work and ideas which belong to them. We owe to Mr. Truex the general plan of the book, along with many other features, while the business-like footing upon which we now stand and a very great deal of the work in that connection must be attributed directly to Mr. Kelly. It is to be very much regretted that their connection with the Rollamo Board was so untimely severed, coming as it did at the critical period of the book's existence; but much more to be regretted are the complications which brought about such a result.

We cannot speak too highly of the donations to this book of Mr. Eugene Johnson of St. Louis. He has made possible the many drawings which appear here, and to speak of their merit is unnecessary. His willingness and ability make our appreciation all the greater.

To Coach E. H. McCleary we are indebted for our Football and Baseball Reviews, together with other articles in our section on Athletics. We wish to thank Mr. J. C. Finagin for his assistance in obtaining photos, and to J. L. Head, T. P. McCague, Myron Skidmore, L. L. Harlowe, J. W. Shotwell, T. S. Dunn and others we express appreciation for class and special articles. To the many others also the Rollamo Board is grateful for the advice, co-operation, and assistance which you have tendered us, for we realize well enough how deficient the book would be without your support.

THE ROLLAMO



FRATERNITIES



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Gamma Xi Chapter.

Established—January 23, 1903.

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Frater in Facultate
Joseph Wayne Barley.

Fratres in Universitate

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Carl Deuel Young,
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Holman Thompson Marshal',
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Roy Nicoll McBride,
Howard Gove Halsey,
Frederick Galloway Moses,
Clinton DeWitt Smith.

1915.

Ralph Edward Wilkins,
John Warder Shotwell,
Roy Watson Griffin,
Homer Marvin Wilson,
Albert Leo Trent.

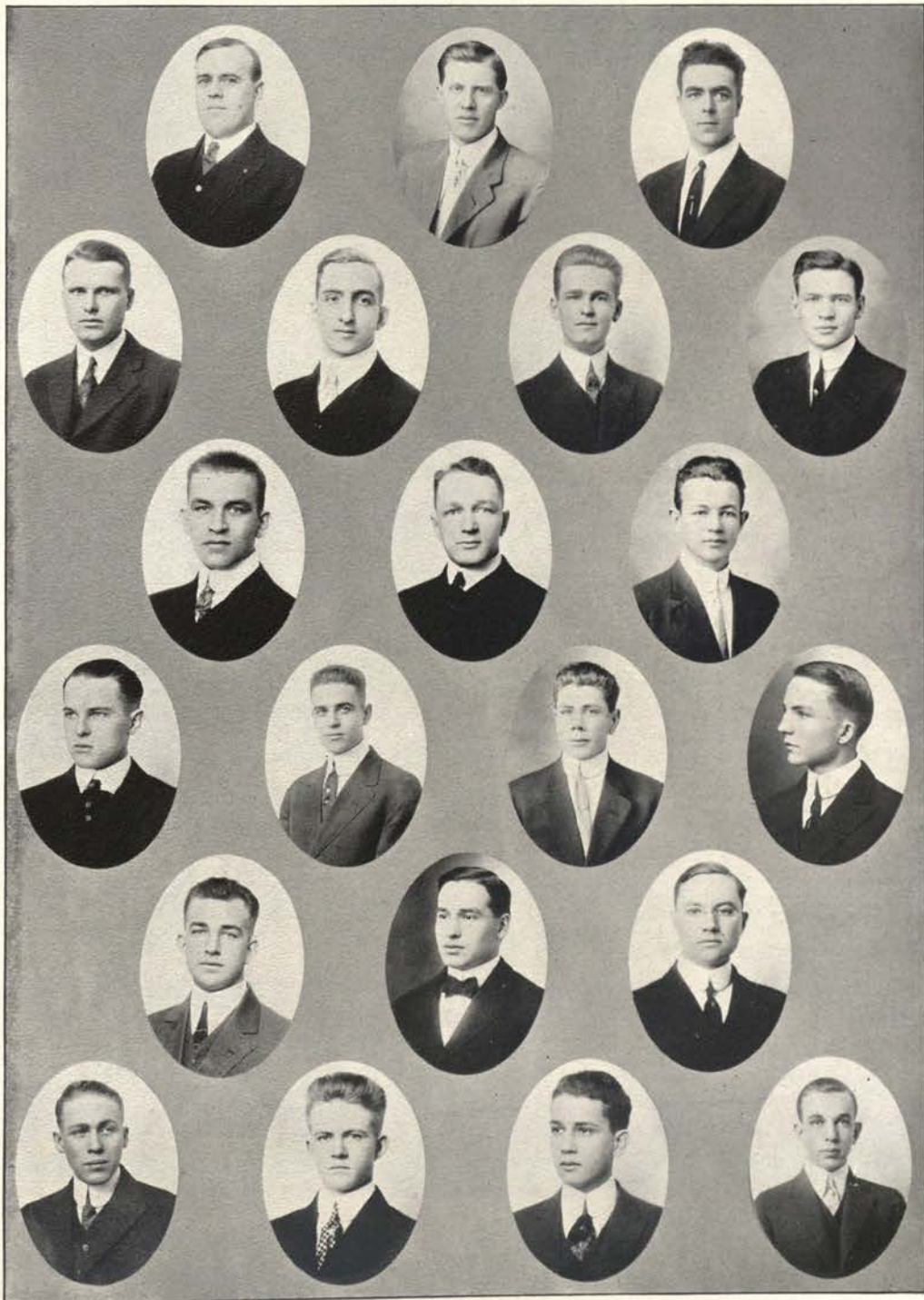
1916.

Robert McClair Miller,
Harold Jelleffe Hubbard,
William Clyde Adams,
Louis Wilmer Ehlers,
Robert Stanley Burg,
Baarent Ten Broek, Jr.

1917.

James Willard Pugh,
Phillip Bassett Shotwell.

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Beta of Missouri.

Installed December, 1906.

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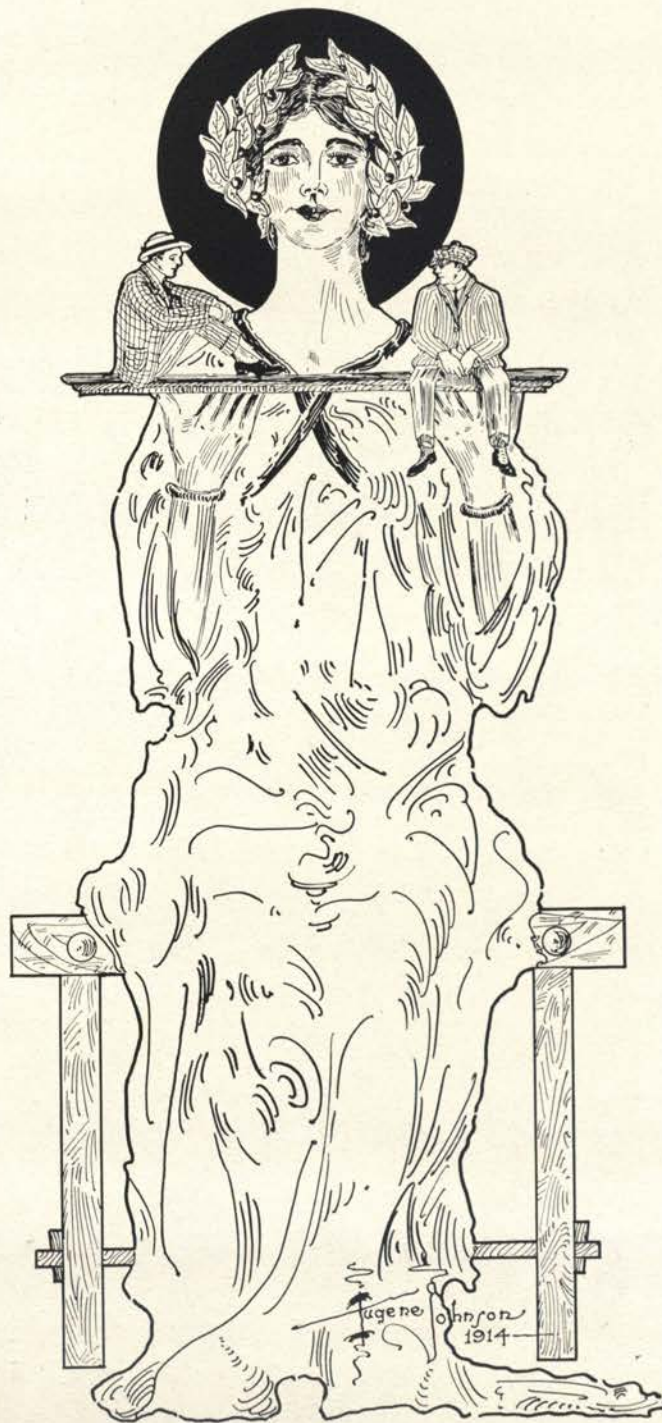
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CLUBS
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AND



ORGANIZATIONS

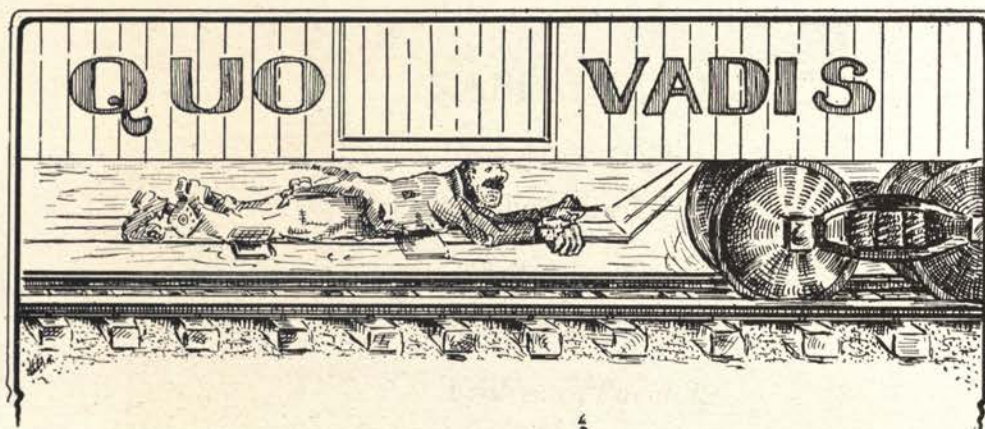
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"Masonic."

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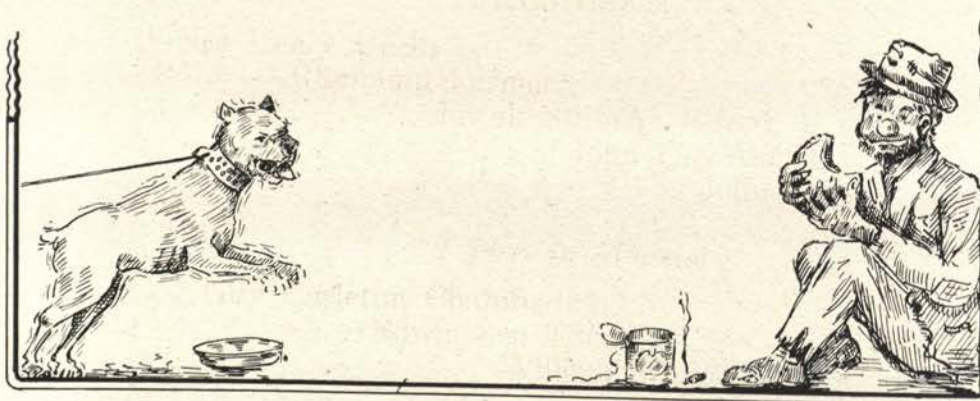




MOTTO PLEASE MUM.
 COLORS BLACK AND BLUE.
 FLOWER DOG FENNEL.

"ENOCH" NEEDLES.	"BUTCH" BOUCHER.
"STOLLY" STOLIKER.	"JOE" COLE.
"TRUE" TRUEX.	"SENATOR" HATCH.
"MIKE" COLLINS.	"JOHNNY" WEBSTER.
"EGGIE" MILLER.	"RED" MAHER.

~ IN THE FACULTY. ~
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Gilbert Frank Metz,

Arthur Fuller Truex,

Leonidas James Boucher,

Riley Marsh Simrall.

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Wieberg, E. B.

Ashdown, B. L.

Gannon, K. I.

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Hoppock, L. N.

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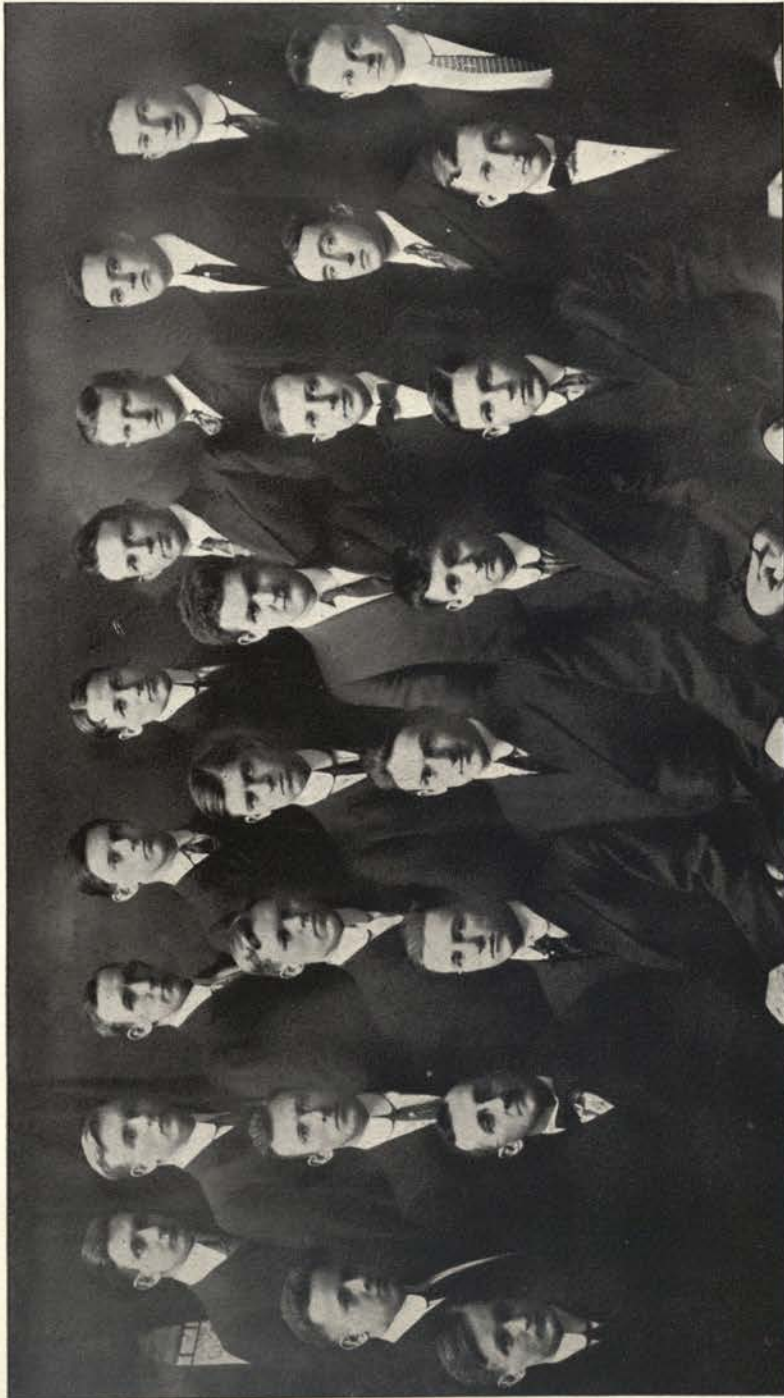
Harrington, A. B.

Blaylock, D. W.

Ruebel, E. H.

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Stokes, R.

Bandy, R. L.

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THE ROLLAMO



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1913-1914.

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G. H. Cox,	C. R. Forbes,
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SOPHOMORES.

J. G. Galbraith,	J. J. Dowd.
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FRESHMAN.

H. Price.

THE ROLLAMO



THE MISSOURI MINING ASSOCIATION.

J. C. Finagin, Jr., President. W. M. Benham, Vice-President.
F. L. Johnson, Secretary. D. W. Blaylock, Treasurer.

The objects of the Association are: first, to advance the knowledge of mining among its members; second, to promote good-fellowship among the students and alumni of the Missouri School of Mines; and third, to bring the Missouri School of Mines into closer touch with the mining profession at large.

There are three classes of members in the Association, Active, Alumni and Honorary.

Any student of the Missouri School of Mines who has eighty-five hours credit is eligible to active membership.

Although we got a late start this year, we are striving to fulfill the objects of the Association by having meetings every two weeks instead of once a month as prescribed by the constitution.

So far we have been very successful in securing very interesting "talks" from Professor Cox, on benefits derived as members of the Association; from Mr. T. S. Dunn, on "Coal Mining" as carried on in Alberta, Canada; from Professor Dake, on "Prospecting by Magnetism" as done in the northern iron fields.

The President has secured the services of "Hans" Buehler, S. St. Clair, Professor Forbes, L. J. Boucher and D. W. Blaylock for future meetings. He is also trying to secure the services of men, who are prominent in the mining and metallurgical fields of the near by states. So far he has secured Dr. U. S. Grant, of Northwestern University, Mr. P. N. Moore, Geologist and Mining Engineer, of St. Louis, and Mr. E. B. Brewster, from the Sullivan Mining Machinery Company.

YOUNG MEN'S CHRISTIAN ASSOCIATION.

CABINET, 1913-14.

G. E. Johnson, President. Clyde Bower, Vice-President.
Mervin J. Kelly, Secretary and Treasurer.
Dr. J. W. Barley, Faculty Advisor.

The headquarters of the Y. M. C. A. have been moved from Norwood Hall to the permanent quarters in Parker Hall. Here we have two large rooms fitted up as rest and study rooms. These rooms are quite popular with the whole student body. The obtaining of these rooms was indeed a big help to the Association.

The 1913-14 Student Hand Book, while it was our first attempt, proved to be a great success, and it is hoped that this will be made a permanent institution of the Y. M. C. A.

As in former years an entertainment course was arranged by the Association. It was a splendid success and was an improvement over the courses of former years.

It is greatly to be regretted that the Y. M. C. A. does not take a more important place in the life of the students at M. S. M. The well known principles of the organization are worth inculcating in the minds of all men, and no one would be any the worse from adhering to them. As a rule, however, the Y. M. C. A. does not play so important a part in school life as it does in the large cities, where the lack of gymnasium and recreation facilities is much more keenly felt. Every year, however, adds to the prestige of the Association, and it is to be expected that we too will in time awake to a realization of the benefits to be derived from membership in it.

ATHLETIC ASSOCIATION.

President, Professor Carrol Ralph Forbes.
 Vice-President, Joseph B. Cole.
 Secretary, Mervin J. Kelly.
 Treasurer, Edwin Kahlbaum.

ATHLETIC BOARD OF CONTROL.

President, Professor Carroll Ralph Forbes.
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 Faculty Representative, Professor Guy Henry Cox.
 Coach, Edward Harry McCleary.
 Athletic Manager, Lawrence Collins.

CAPTAIN OF THE TEAMS, SEASON 1913-1914.

E. O. Stoliker, Football,
 J. R. Maher, Basketball,
 J. B. Cole, Track,
 J. C. Miller, Jr., Baseball.

"M" MEN.

FOOTBALL.

R. L. Bandy, C. C. Bland, L. J. Boucher, C. Y. Clayton, Mgr. Joe Cole, John Cole, L. Collins, Mgr.,	C. C. Cushwa, E. Freeman, H. J. Houston, H. J. Hubbard, W. W. Kiskadden, L. L. Lodwick,	E. A. Miller, J. C. Miller, Jr., R. L. Mountjoy, J. M. Schuman, E. O. Stoliker, J. G. Wilson.
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TRACK.

G. H. Cowman, Joe Cole,	C. W. Bower, F. Heman,	H. T. Marshall, L. L. Lodwick.
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BASKET BALL.

L. L. Lodwick, J. R. Maher,	A. L. Trent, W. H. Kamp,	R. L. Mountjoy, T. Castillon.
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BASEBALL.

C. W. Hall, C. C. Cushwa, W. H. Kamp,	L. L. Lodwick, L. D. Lyons, E. A. Miller,	J. C. Miller, Jr., R. L. Mountjoy, J. N. Webster.
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FOOTBALL REVIEW, 1913.

The 1913 football season may be characterized by the expression "the best record a Missouri School of Mines Team ever made." And taking into consideration the schedule, which was an exceptionally stiff one, the team made a wonderful showing. Practice was started at the opening of school with thirty men out. Of the 1912 squad six "M" men reported for practice. Captain E. O. Stoliker, Joe Cole, and "Kelly" Miller of the backfield, and "Ole" Lodwick, "Eggie" Miller, and "Buck" Mountjoy, linemen. Others of the 1912 squad to report were John Cole, Lyons, McCague, Corey, Cushwa, Arpe, McCartney and McKinley. Of the new men, Bland, Freeman, Kiskaddon, Usher, Houston, Hubbard, Wilson, Bandy, and Bock looked best.

After two weeks of preliminary training to condition the men, scrimmage was held until the first scheduled game with Cape Girardeau Normal, October 4, at Rolla, which the Miners carried away easily by a score of 51 to 0. This was merely a practice, but it gave the coach an opportunity to get a better line on his men. After this game several changes were made and the team began to take the form of a football machine, although the practice the week following this game was perhaps the most gruelling of the 1913 season. But the benefits derived from this were manifested in the game with the strong Christian Brothers College team at Rolla, October 11.

C. B. C. GAME.

This game ended in a 7-7 score, but those who saw the game know the Miners should have won by at least two touchdowns. Over-anxiety and penalties alone prevented us from scoring at least two more touchdowns. This game brought out still more weak spots in the team, and proved it had not yet hit the stride pleasing to the coach, although improvement over the first game was very noticeable to all. In this game the Miners gained more than twice as much ground as their opponents, but were penalized 165 yards as against 25 for the visitors. The game proved to be the hardest fought and most interesting game ever played on Jackling Field, for the C. B. C. aggregation fought hard and put up a very stiff defense. The manner in which the Miners came from behind and fought for the score that prevented defeat was most pleasing to their supporters.

ST. LOUIS UNIVERSITY GAME.

The C. B. C. game past history, all eyes were turned to the St. Louis University Miners game at St. Louis, October 18. The week preceding this game was another of hard work, perfecting team work and overcoming the weak points that cropped out in the C. B. C. game. Not since 1910 had the Miners beaten St. Louis University, and they went into this game with the intention to do or die. The Miners simply swept the Blue and White players off their feet and administered the worst defeat ever handed a St. Louis University team up to that time. The Miners played the running game throughout, and resorted to the forward pass but twice during the game. The score could probably have been made larger but a great many substitutions were made in the second half. The teamwork in this game was nearly perfect and the game had not been under way very long until it was seen that Coach Dennie's men were in for a drubbing. The supporters of the Miners had hoped for victory but the score of 60-0 was far beyond their fondest expectations. The work of Bland, Freeman, Captain Stoliker, Mountjoy, Kiskaddon, in fact every man, was excellent. The team had now gotten into its true form, and at that time the scribes of St. Louis voiced the opinion that the Miners could cope with any team west of the Mississippi. This victory was probably the most decisive and brilliant ever achieved by an M. S. M. football team. It gained us recognition throughout the country and put us on the football map.

DRURY GAME.

The next week after the St. Louis University game was probably the easiest of the season for the team, and was taken up in the perfecting of the forward pass in anticipation of the game with Drury at Springfield, October 25. Drury has had the good fortune in the past to catch the Miners on an off day, but this year proved the reverse. True, the Miners were slow in getting into action, but once they did, they swept Drury before them. The first quarter, Drury, with the aid of a Miner's fumble and a stiff wind, kept the Miners on the defensive most of that time. But at the end of the quarter the conditions were reversed, and it took but a few minutes for the Miners to go over the line for a touchdown. They added another in this quarter and had the ball on Drury's five yard line when time was up for the half. We scored a touchdown in each of the two succeeding quarters and would have had another but for penalties. The game ended with the score 26-0, in favor of the Miners. The team used the forward pass with telling effect and Kiskaddon's running with the ball from a fake formation was good. Bland, Stoliker, Mountjoy and Freeman were the ground gainers for the Miners. Drury put up a stubborn defense but could do nothing on offense after the first quarter.

MISSOURI UNIVERSITY GAME.

The week following the Drury game was one of disappointment to the coach. Due to a heavy snow, practice was impossible, and the team had to go to St. Louis for the only two signal practices of the week.

It was the plan of the coach to work the team hard in preparation for the Missouri University game at Columbia on November 1. The men went stale and were not in condition to withstand the hard rough game put up by the University. The Miners were defeated by a 44-14 score, but every man felt that it was due to lack of practice, and the condition of the men. The only consoling feature of the game was that the Miners had crossed the University's goal line for the first time in the history of the school, and we did the trick twice without the aid of flukes. Bland made a 90 yard run for a touchdown, but was so badly hurt a short time after this that he had to be taken from the game. Freeman was always good for a gain when carrying the ball. Mountjoy distinguished himself at end, while Captain Stoliker was sure on defense. Joe Cole and "Eggie" Miller were badly hurt in this game and the whole team was badly battered. While disappointing to the team, it did not discourage them. They got down to hard work again in preparation for the Washington University game at St. Louis, November 8.

WASHINGTON UNIVERSITY GAME.

The Washington University game proved to be one of the cleanest, hardest fought, and most interesting games ever played on Francis Field. Our team was a badly crippled aggregation when it took the field in that game. Joe Cole was out with a broken bone in his foot, while Pitts Bland was in no shape to enter the game. Before the game had been on ten minutes, Captain Stoliker was badly hurt and had to be taken from the game, while Bland was taken out a short time afterward. This necessitated the taking of "Buck" Mountjoy from end and putting him at half back. The move proved to be a good one, as "Buck" gave an exhibition of running with the ball that was the feature of the game. The Miners had several chances to score, once having the ball on their opponents' one yard line with four trials to take it over, but lacked the necessary punch. Twice again they were within the five yard line but Washington University's line held firm and they were forced to give up the ball on downs. Washington had the ball within the Miners' five yard line but they too lacked the ability to take it over. Another time from the fifteen yard line, Lewis, their full back, place-kicked a goal from field. At the end of the third quarter the score was 3-0 in Washington University's favor. At the beginning of the fourth quarter, the Miners with the aid of a stiff wind, took the ball in mid-field and without losing possession of it once, marched down the field,

'Kelly' Miller going over for the first touchdown of the game. Washington kicked off, and then the Miners pulling together as a man and pulling off some sensational forward passes sent Freeman crashing over the line for the second touchdown. Kiskaddon had kicked the first goal but missed this one, leaving the score 13-3 for the Miners. Again Washington kicked off and the Miners returned it to mid-field. Again by the aid of forward passes and off tackle plays, end runs and fakes, Kiskaddon went over for the third and last touchdown and then missed goal. The game ended shortly after this, with a score of 19-3, with the Miners on the long end. Bland, Mountjoy, Kiskaddon, "Kelly" Miller and the whole line played great football. The dark spots of the game were the injuries to Captain Stoliker and Pitts Bland. The injury to Stoliker kept him out of the game the rest of the season, and with Bland and Joe Cole in bad shape the outlook was very gloomy.

On November 19, a practice game was played with Verona A. C., in lieu of the game scheduled for November 15 with Central College, which later was cancelled. The final score was 74-6 in favor of the Miners.

OKLAHOMA A. & M. GAME.

The Miners journeyed to Muskogee, Oklahoma, to play the Oklahoma A. & M. College on Thanksgiving day under the auspices of the Muskogee Commercial Club. The game was played in a drizzling rain, and on very muddy grounds, but the Miners, although crippled, played one of the best games of the season. Kiskaddon displayed excellent generalship, and his forward passing with a water soaked and muddy ball was sensational. Both touchdowns came directly from the use of this play. Every man played the game of his life, the work of Bland, Kiskaddon, Houston, Freeman, "Eggie" Miller, Lodwick, Hubbard and Cushwa being exceptionally good. The Miners ended a most successful season by winning the game by a score of 14-0. They had the ball on the Aggies' one yard line when time was called for end of game.

Although Captain Stoliker was disabled and did not play in the two final games, his magnificent inspiration seemed to imbue the team, and his mere presence was sufficient.



E. H. McCLEARY—Penn State—Coach.

"Mac" showed us his ability more than ever this year. Last year was his first one with us, and, though we lost a few of the hardest games, we were more than satisfied with the results. This year he gave us a team which lost but one game on the hardest schedule we have ever had—it was a team which may well be ranked as about the best in the history of M.S.M. He accomplished this through his thorough knowledge of the game, his resourcefulness, his personality and his ability to both tell and show what he wanted.

LAWRENCE COLLINS—'14—Manager.

"Mike" went at his work in the right way. He had everybody with him, students, townsmen, faculty and team. There wasn't a thing that he could have done that he didn't do in the way of looking after the best interests of football at M.S.M.



A. F. TRUEX—'14—Cheer Leader.

"True" led our rooting as he has led everything else, showing ability, energy, and originality. He always had everybody with him from the kick-off to the final whistle. No longer do we hear "muckerish rooting" applied to our demonstrations. How pleased "Doc Louie" would be!



CAPTAIN STOLIKER, '14 Fullback.

"Stolly" was perhaps the best defensive man on the team, at probably the hardest position, that of defensive half back. He was a sure, hard and deadly tackler, a good consistent kicker and could not be denied his yards when given the ball. Put all his effort in to running with the ball, and made a fine leader by his good work and his fine example. Received a broken bone in his neck at a time when he was playing his best game. Here's hoping for his safe and speedy recovery.

CAPTAIN ELECT, MOUNTJOY, '16 End.

"Buck" was one of the few fellows that could successfully diagnose his opponent's plays and get to them and break them up before really started. Saved his team many times by being able to do this. Was brought back from end to halfback and gained many yards by his ability to dodge and pick holes. Was our most reliable ground gainer in the Washington game. Was full of tricks but got caught at Muskogee in the Thanksgiving game. Was chosen captain to lead the 1914 team and we all wish him to lead the best team ever.



J. C. MILLER, '14 Center.

"Come on, fellows, a little more pep!" was a familiar cry of "Eggie's" and was the signal for more scores. In the St. Louis University game he was out of breath yelling "more pep!" but everybody was so well pleased that "Eggie" couldn't say it fast enough. Look at the score of that game if you wish to realize how many times he said it. Played his second season of football when a Senior. Also played himself to death in every game, but would never quit.



L. L. LODWICK, '14 Tackle.

"Ole" finished his four years of college football in a blaze of glory. In the Thanksgiving game he pulled down the mud soaked ball from among a half dozen opponents when hurled at him by "Kis." One of those fortunate fellows who is always in condition and giving the best in him. Could heave a football as far as most fellows could throw a baseball. Gained many yards by running from his tackle position, but his ability to pull down the elusive pigskin on forward passes was his long suit. We all wish him luck upon graduation.

C. C. CUSHWA, '14 Guard.

"Cush" played his first season of football as a Senior. He was quick to learn his duties at guard and proved to be a most reliable man at that position. He would not acknowledge defeat and was in every game for all he was worth, giving the best he had. Too bad he does not have at least a couple more years in school as he has the stuff in him that makes stars. He was one of the fiercest chargers in the line, and spoiled opponents' plays many times before fairly started.



JOE COLE, '15 Halfback.

"Joe" has always been a good, hard, clean, and conscientious player, and some tackler. He ran hard with the ball and was a good defensive half back. He had hard luck in having a bone broken in his foot in the Missouri University game, that put him out of the rest of the season. He was a player that tried to keep himself in the best physical condition. He ought to be at his best next year and prove a terror to his opponents.



THE ROLLAMO



H. J. HUBBARD, '16 End.

"Hub" was one of those quiet unassuming fellows that would not give you the impression of a star. But he was one of those sure, hard clean tacklers that could always be depended upon. He could smash interference just about right, and the opponents could never get around his end successfully. Was equally as effective at one end as the other. He played a wonderful game against the Oklahoma Aggies on Thanksgiving, and should be an All-Missouri end by next year.

C. C. BLAND, '16 Halfback.

"Pitts" played the best football of his career this last year. His running of ends from fake kick formations with the ball was great from our standpoint, but rather discouraging to opponents. Was badly jammed up the latter half of season but was our best offensive man. Put up a great game all year and ended the season with one of his best games against the Oklahoma Aggies, on Thanksgiving. Classed with any of the all Missouri backs.



E. A. MILLER, '16 Halfback.

"Kelly" improved a hundred per cent over his Freshman year, and if he continues to improve as rapidly the next year or two, he should be one of the classiest half backs in Missouri. One of those solid husky built boys that can get over the ground at breakneck speed. Is a very good man at defensive half back and has knocked many out forward passes of opponents. Was right on the job at all times giving his best to the team.





W. W. KISKADDON, '16 Quarterback.

"Kis" played his first year in a Miner's uniform but he made good with a vengeance at quarter back. Always used good judgment in calling plays; a whale at tackling; did nearly all the forward passing; did the kicking after "Stolly" was disabled; and never dropped a punt during any game of the season. What more could you wish? His hurling of forward passes in the Thanksgiving game with a slippery mud-soaked ball was great. Threw them to the spot every time, and it was that that brought home the bacon.

JOHN COLE, '16 Tackle.

"John" was the handy man of the team, and could be played at any position on the line and fill it admirably. He was rather light for a line man, but made up for it in spirit and fight. Was better at center than any other position, although he did good work at tackle and end. This was his first year, but he was quick to learn, and should prove one of the mainstays of the team next fall.



EARL FREEMAN, '17 Fullback.

"Free" has the distinction of being the only man on the team to score at least one touchdown in every game on our schedule last Fall. Was a hard man to stop on those off tackle plays and was used consistently in that particular play. Was good running mate for "Pitts," and that pair brought dismay to many of their opponents. "Free" was well liked by all the fellows and we are sorry to lose him from our midst for next year.





H. J. HOUSTON, '17 Tackle.

"Hobbs" could make more noise than any man on the team, but could also play the game. Was a late arrival last Fall but made good right from the start. He played a clean cut, consistent game throughout the season. Was a hard man to run plays through or around and could always be depended upon. He played the Thanksgiving game with a badly wrenched knee that would have kept another on the side lines, but "Hobbs" stuck to it and tore through the Oklahomans time and again.

JOE WILSON, '17 Guard.

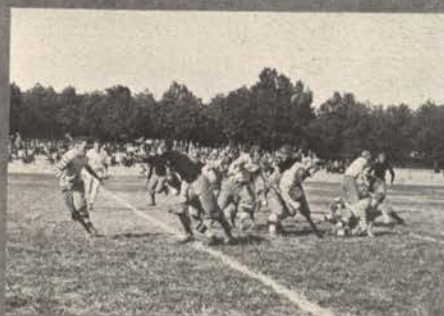
"Joe" was probably the biggest man on the squad although but a green Freshman. He made rapid strides and was coming along fast. Made good as guard at the beginning and played the whole season through at that place. He should make a bright star in three more years as he has everything but experience. Should be an All-Missouri guard before he finishes his college football.



R. L. BANDY, '17 Center.

"Cheese" was another of those all around men. He was played at center, end and some at tackle. Was one of the fastest men on the squad and had the making of a fine player after a little more experience. He was another of those green Freshmen, and made the coveted "M" in his first year, but he left at the end of the first semester and the Miners lost another good prospect.

THE **R**OLLAMO





‘BASEBALL’

BASEBALL SEASON, 1913.

With but four "M" men back for the baseball team, the prospects for a good team in 1913 were not exceedingly bright. Of the old men, Ehlers, captain and pitcher, Hall, another pitcher, "Eggie" Miller at first base and "Johnnie" Webster shifted from second base to the outfield, were all that remained from the preceding year. But "Kelly" Miller at second base, Mountjoy at third and Lyons behind the bat showed great form and filled the vacancies admirably. Hanrahan and Kamp did good work at short, while Pete White made good in the outfield. The other new men were Lee and Spafford, pitchers. "Ole" Lodwick and Cushwa made up the outfield along with White and Webster.

The first trip was taken early in April, and before any home games had been played, and with but very little practice owing to the cold weather. The first game with Arkansas University at Fayetteville was a pitcher's battle between Ehlers and Hinton, the star of Arkansas. Each pitcher gave only five hits, but Arkansas secured theirs at opportunes times, and with a couple of Miner errors, Arkansas won by a score of 5-1.

The second game between these teams was played at Fort Smith, Arkansas. Bill Hall, after a bad start, pitched a great game and should have won, but after several substitutions of umpires by the Arkansas coach the game was simply taken from us by a score of 6-5 in ten innings. We outhit and outfielded our opponents but several decisions against us did the work.

The next game was a walk over for the Miners. They defeated Henry Kendall College at Tulsa, Oklahoma by a score of 11 to 4. Lee and Spafford, new men, pitched this game.

The next game with Oklahoma A. & M., our old football rivals, was a close, hard fought game and was lost by a thrown ball hitting the umpire, allowing two runs to score. These proved to be the tallies that decided the game as the final score was 4-2 in the Aggie's favor. Ehlers pitched a fine game but weakened in the eighth inning, due to lack of practice.

The next two games were defeats at the hands of Oklahoma University at Norman, Oklahoma. In the first game, our men were helpless before the terrific speed of Ponder, and we lost by a score of 8-1. The second game was a repetition of the Oklahoma Aggie

game, in which our pitchers could not hold up. This game went by a 5-3 score.

At Wilburton, Oklahoma, our team put up the best game of the trip, and the Miners defeated the Oklahoma School of Mines by a score of 4-1. The Oklahomans had a strong team and were out to win, but Ehler's benders were too much for them and the Missouri Miners came away victorious. Several former Missouri School of Mines professors and alumni made the visit for our team a pleasant one, a dance being given in their honor.

The trip from Wilburton to Springfield was an all-night ride, changing trains and no sleep. The loss of sleep showed on our team the next day against Drury, as we lost in a loose played game by a score of 7 to 1. Our team put up a miserable fielding game although they hit hard. The second game with Drury was called off on account of rain.

The next game was played on Jackling Field, the first home game, with the Chinese University team of the Hawaiian Islands. The Chinese had a great team, not having lost a game to any college team since landing. They were great fielders and cut off several Miner scores by sensational stops and catches. If Captain Ehlers had not lost control in the seventh inning, the Miners would have had a great chance for the game, as they were leading at that time by a score of 6-4. But the Celestials made enough that inning to capture the game by a score of 8-6, sad to relate.

The next two and last games of the season were victories for the Miners over Drury College. Our team was at its best and in the first game batted Dillard, Drury's star slabman, for twelve runs, three of them being homers. Of these latter, Pete White made two and "Eggie" Miller the other. Ehlers held the Druryites scoreless. The second game was a hard fought affair with first one team leading then the other. Ehlers relieved Hall in the seventh, after a pinch hitter had taken Bill's place at the bat, and held Drury scoreless for the remainder of the game. Successful pinch hits and good hard drives put the Miners ahead again, and they won by a score of 7-5.

The team, while it did not make an enviable record, was playing a fast game the latter part of the season. Some of the teams that had defeated us earlier in the season would have been easy prey for us later.

At the end of the season "Eggie" Miller was unanimously chosen Captain to lead the 1914 team.

“M’s” AWARDED IN BASEBALL IN 1913.

William Ehlers, '13, Captain.

J. C. Miller, '14, Captain Elect.

J. N. Webster, '13.

C. W. Hall, '14.

C. C. Cushwa, '14.

L. L. Lodwick, '14.

L. D. Lyons, '15.

E. A. Miller, '16.

J. Hanrahan, '16.

W. H. Kamp, '16.

R. L. Mountjoy, '16.

K. White, '16.

BASEBALL SCHEDULE FOR 1914.

April 6, Miners vs. Concordia at Rolla.

April 7, “ “ Concordia at Rolla.

April 13, “ “ Morrisville at Morrisville.

April 14, “ “ Morrisville at Morrisville.

April 15, “ “ Drury at Springfield.

April 16, “ “ Drury at Springfield.

April 17, “ “ Arkansas at Fayetteville.

April 18, “ “ Arkansas at Fayetteville.

April 27, “ “ Drury at Rolla.

April 28, “ “ Drury at Rolla.

April 30, “ “ C. B. C. at St. Louis.

May 1, “ “ C. B. C. at St. Louis.

May 2, “ “ Concordia at St. Louis.

May 12, “ “ Morrisville at Rolla.

May 13, “ “ Morrisville at Rolla.

May 27, “ “ C. B. C. at Rolla.

May 28, “ “ C. B. C. at Rolla.



THE ROLLAMO





‘TRACK’

TRACK SEASON OF 1913.

The track athletics for 1913 at M. S. M. were greatly handicapped due to the difficulty of arranging meets. The only dual meet arranged for was with Washington University of St. Louis, on May 3d, 1913. Washington University had one of the strongest teams in the state, while the quality of the Miner's team was unknown. The meet proved to be one of the most exciting ever seen in St. Louis, as the final score was in doubt until the last event was decided. The Miners started off by taking first and second places in all the dashes and short distance events, breaking existing records for Francis Field. We also took first place in the half mile, the discus throw, and the high jump, and seconds in the one mile, both hurdles, and shot-put. Finally the Washington men found our weak spots in the broad jump and the pole vault. The relay race was exciting, but proved to be a victory for the Miners, Cowman having a start at the beginning of the last lap which he gradually increased until he came in a good winner. The final score stood 52 to 57 in favor of Washington University. Cowman was the individual star of the occasion, winning three firsts in record time.

Cowman later represented M. S. M. at the Missouri Valley Conference Meet held at St. Louis under the auspices of the Washington University, but hard luck at the finish prevented him from winning the quarter-mile final heat.

The prospects for this season are much brighter than they have been in recent years. A meet with Washington University in Rolla is already arranged for, with possibilities for two or three more later. With practically all the old men back, and Joe Cole and Jerry Cowman to lead the way, there is no doubt but that we will have a team that will win glory for both itself and old M. S. M.

The erection of the new Gymnasium with its accommodations for indoor training will no doubt prove a potent factor in the future successes of our track teams.

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“M’s” AWARDED IN TRACK, 1913.

G. H. Cowman, '14, Captain.

J. B. Cole, '15, Captain Elect.

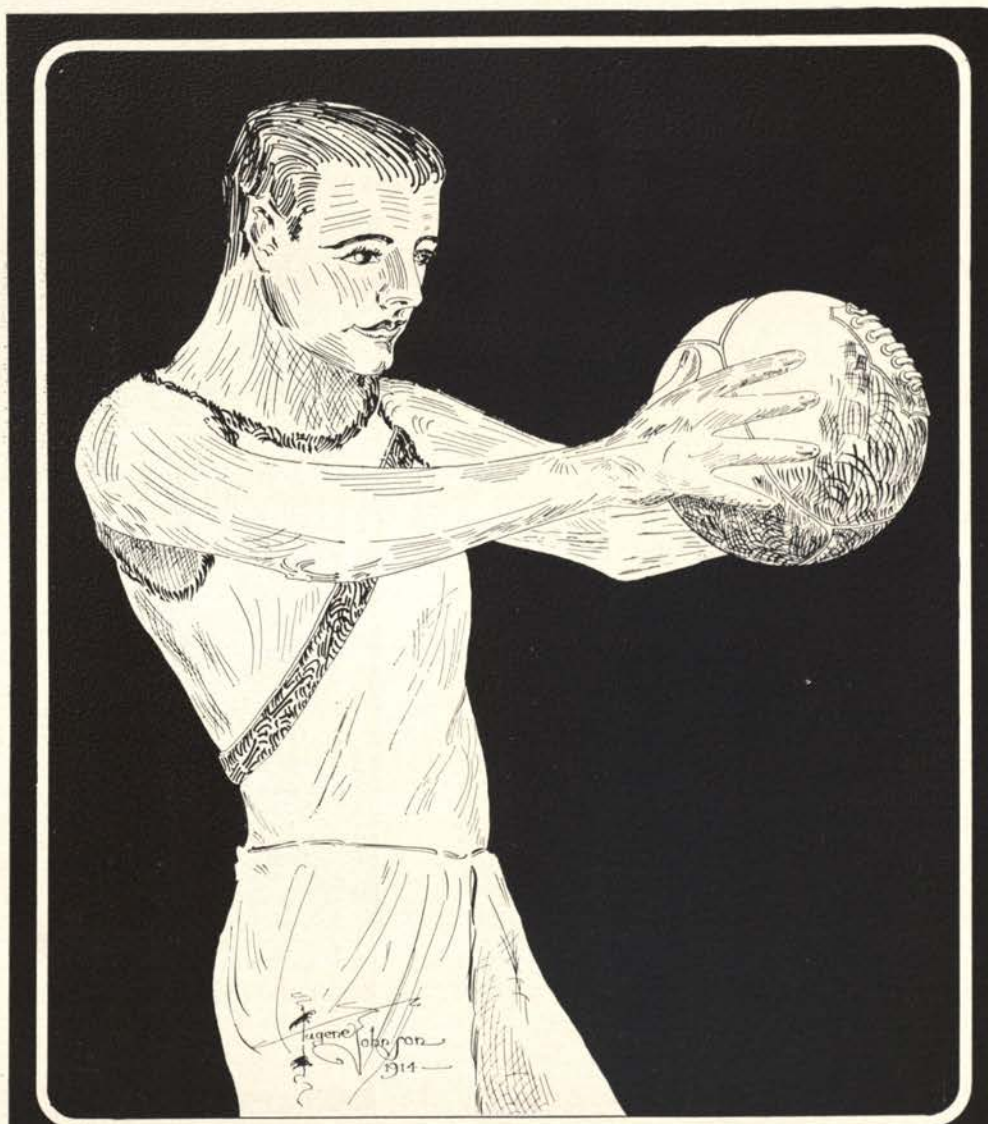
C. W. Bower, '16.

F. R. Heman, '16.

H. O. Mann, '16.

M. S. M. TRACK RECORDS.

	Record	Holder	Year Made
100 yard dash.....	:10 1/5	K. V. Moll, G. Cowman	1902
200 yard dash.....	:22 2/5	G. Cowman	1913
440 yard dash.....	:51 2/5	G. Cowman	1913
880 yards.....	2:04	G. H. Boyer	1906
1 mile run.....	4:40	G. H. Boyer	1906
120 yard hurdles.....	:16	M. S. Mazany	1909
220 yard hurdles.....	:25 4/5	M. S. Mazany	1909
16 lb. shot.....	41 ft. 9in.	S. C. McComber	1908
Discus.....	111 ft. 6 in.	E. P. Barrett	1908
High jump.....	5 ft. 7 in.	John Graves	1905
Broad jump.....	20 ft. 10 1/2 in.	C. W. Traugher	1909
Pole vault.....	11 ft.	S. C. McComber	1911
Five-mile cross country ..	30:40	E. D. Lynton	1908
Half-mile relay.....	1:37 2/5		1913



BASKETBALL

In Memoriam

Basket Ball

Passed away in 1912
at the Missouri School of Mines

We anxiously await the hoped for
resurrection in 1915

THE FOOTBALL BANQUET.

The evening of December 8, 1913, will be long remembered by those who were so fortunate as to be attending the School of Mines at the time, for on that date was held the now famous Football Banquet. It was the first of the kind, but let us hope that from now on it will be an annual custom, for the entire student body and the faculty to gather for an evening of enjoyment and to show what M. S. M. spirit really is. Of course we had a great incentive this year to come together as a body to honor one of the greatest football teams that ever represented the school, to extoll the deeds of the team of 1913, and to inspire those who will uphold M. S. M.'s colors in the future, giving them the assurance that the entire school would be behind them winning or losing.

It was the team's misfortune this year to meet the greatest Tiger team in years and to meet C. B. C. before the season was well started, but with the veterans of this year as a foundation, we are expecting great things for next fall. And while this year's record was magnificent, we expect next year to see an unbroken string of victories, and to gather at another banquet to honor an all-victorious team. But if we are disappointed, we will still hold the banquet to honor a team that gave all they had, and only went down to defeat to a superior foe.

But to that evening of fun. It was SOME banquet all right and every thing and every minute of dinner, speeches, and cabaret, was enjoyed to the limit by faculty, students, and town people. Possibly some present thought that the honors were unevenly distributed, and the Freshmen, and some Seniors, wished that their hair might mysteriously disappear, for a bald head did seem to be an attraction. But then we all can't hope to make a hit with the ladies. The way that dinner disappeared gave proof of the excellency of the food, and the unanimous chant of "We want music with our meals" showed that the cabaret was as greatly appreciated.

The great gold and silver banner hanging above all, with the season's glorious record inscribed upon it, was an inspiration to all, and when it was auctioned off, the bidding was enthusiastic. But after the sale was over, many a student investigated the state of his pocketbook, and, thinking of the price the banner brought, decided that it was just as well that his class was not the successful bidder, and that the town people obtained it—although the amount that was bid for it hasn't been entirely collected yet.

And then came the speeches. Captain Stoliker and Mountjoy did nobly, but both showed that they preferred to be in the thick of the fray on the gridiron rather than to face such an enthusiastic audience in the role of after-dinner speakers. The Honorable Frank H. Faris delivered the main address of the evening, and those who

had the pleasure of listening to that finished orator talk on "Our Reputation" will never forget it. The attentive audience was the sincerest compliment that Mr. Faris could receive, and the noisy outburst at the close of his talk only emphasized the feelings of the listeners. We must confess that Professor E. L. Garrett made the real hit of the evening. Rising to address us on the subject "Marks and Remarks" he made just one remark, and that one was sufficient. For some reason or another the word "holiday" has a peculiar attraction for Rolla students, and so the words spoken by Professor Garrett went right to the spot.

It was all great, from the pennant festooned hall to the last yell, and a happy crowd started for home after it was all over, full of the real old M. S. M. spirit and goodfellowship. And then—but what's the use, we couldn't tell all about that banquet in a thousand years. Here is the Menu and Program, so try to imagine it all for yourself.

MENU.

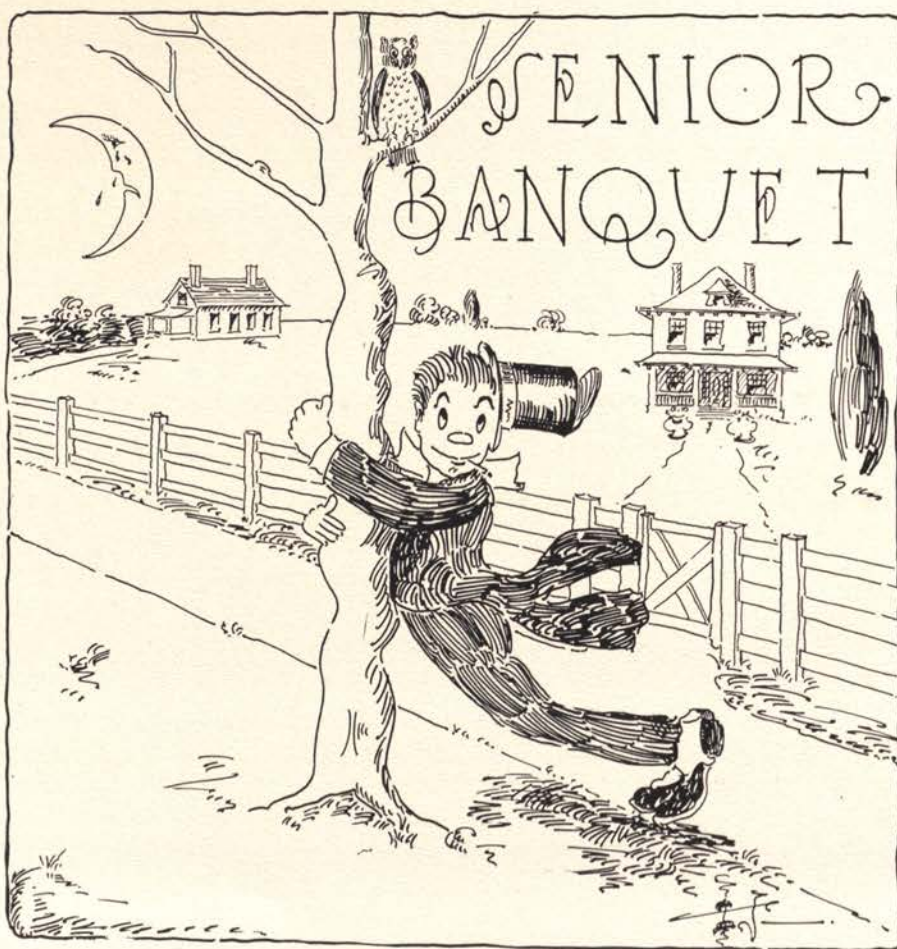
Dill Pickles		Olives
	Bouillon	
	Roast Turkey with Dressing	
	Cranberries	
	Baked Potatoes en Jacquette	
Escalloped Corn		Candied Yams
Fruit Salad		Ice Cream
	Cafe au lait	
Cake		Cheese
Cigars		Cigarettes
	After Dinner Mints	

PROGRAM.

Toastmaster	A. F. Truex
Looking Backward	E. O. Stoliker
Looking Forward	R. L. Mountjoy
Our Reputation	Honorable Frank H. Farris
Marks and Remarks	Professor L. E. Garrett

During the evening entertainment was furnished by the following artists.

Hayes and R'Ives
Lillian Bell
Mildred Howell



This space is reserved in honor of our memorable
banquet as Juniors in 1913.

For an account of our Senior banquet see the
Saint Louis papers of recent date.

JUNIOR BANQUET



Class President, Joseph B. Cole.

Toastmaster, F. L. Johnson.

JUNIOR BANQUET, 1914.

The Junior Banquet was held on January 24th, 1914, at Charley Parker's Hall. It was decided to make the occasion an old fashioned, get-together, personal-experience meeting. It proved to be a happy decision. The resulting feeling of increased class pride and loyalty was plainly noticeable, for nothing binds men together like the recounting of varied experiences through which they have passed together. Old happenings, former class-mates, our earlier college days, all were brought before us once more, and many were the happy emotions induced by their recollection.

There was nothing lacking. The decorations and repast were all that could be desired, and it is proper to say that the Committee did well.

The speeches of the evening dealt principally with class activities of the present and future. However, the practical experiences of mining life, as told by the older men, proved an instructive and interesting feature of the evening. A beautiful and novel rendition of the "Song of Hope" in the original Yiddish, by "Jinx" Kaplan, was received with applause by the linguists of the class.

The following toasts were given during the course of the evening:

The Junior Class,	J. B. Cole.
The New Recruit,	B. L. Ashdown.
Howdy, Juniors,	D. E. Williams.
The Foreign Student as a Factor at M.S.M.,	A. C. Fernandez.
Mining in Illinois,	D. W. Blaylock.
Mining in South Dakota,	W. M. Benham.
Experiences at Garfield,	W. Gammeter.
Experiences at Bingham,	R. W. Hayden.
Basketball,	J. R. Maher.
St. Pat's Day,	J. W. Shotwell.
Au Revoir,	T. P. McCague.



Class President, E. A. Miller.

Toastmaster, Myron Skidmore.

SOPHOMORE BANQUET, 1914.

In accordance with their usual custom, the Class of 1916 held their annual banquet on February 28th, at the Rolla Country Club, otherwise known as the M. C. U. Hall. Always progressive in the matter of obtaining novel features for such an occasion, the Football Banquet's Scheme-of-Entertainment was adopted—you know "Bill" Painter was the headliner in 1913. Of course we could not be content with merely equaling the Football Banquet, we had to excel it, and we did so beyond all doubt. As a result we fear that the "horrible" Cabaret is banished from Rolla henceforth and forever more.

The guests were Coach E. H. McCleary, and E. R. Needles and J. B. Cole, presidents of the Senior and Junior classes respectively. The arrangements were very nearly perfect, the decorations being both profuse and appropriate, and the food was all that could have been asked for. Myron Skidmore was toast master, and carried out his part well indeed. The credit for the success of the banquet does not rest upon individuals, but upon the class as a whole. However, the names of W. D. Beeghly, "Jimmie" Allen, Marsh, Turnbull and John Schuman might be mentioned as men deserving special commendation.

If banquets in the future reach the standard of excellence set by this one, we are sure they will leave nothing further to be desired.

The program of the evening follows:

Retrospective,	E. R. Needles.
St. Pat's Day,	J. B. Cole.
Athletics,	E. H. McCleary.
Our Class,	E. A. Miller.
Yale,	J. T. Drummond.
Ponderous Personages of "16,"	J. L. Head.
School Spirit,	W. D. Beeghly.
Advantages of Graduating in '16,	G. C. Stifel.
Great Deeds,	W. H. McCartney.
Eugenics,	C. A. Torp.
This and That	E. H. Woolrych.

During the evening entertainment will be furnished by the following artists:

Ernette Sisters.

Miss Ethel Elkins.

Miss LaBelle Sultana.

Miss Mabelle Elkins.

FRESHMAN

BANQUET







THE JUNIOR TRIP.

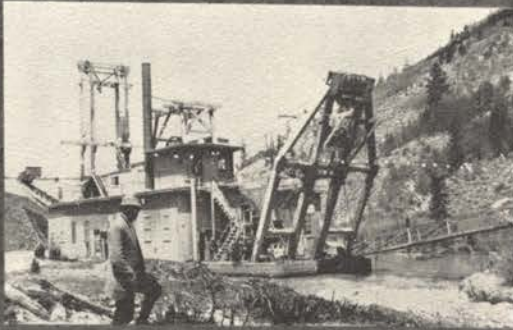
On Wednesday morning, June 4th, 1913, there gathered in front of the Alamo Hotel, Colorado Springs, some twenty five men from the Missouri School of Mines. This was the morning of the start of the never-to-be-forgotten Junior Trip of 1913, in which were combined three weeks of mine, mill, and smelter inspection—all happily crowned with the pleasures of sightseeing in scenic Colorado, and the continued good-fellowship which ever characterizes the students of M. S. M.

To return to Wednesday, June 4th. A hike through the Garden of the Gods, studying the geology of the Garden under the guidance of Professor Cox, proved of so great interest that morning, that, after a hurried lunch in Manitou, we were obliged to hasten on to the Golden Cycle Cyanide Plant in Colorado City in order to inspect it before night fell. In spite of the fatigue experienced from the first day's trip, the bunch still had life enough in them to enjoy the dance at Stratton Park.

If anything, we exceeded our marching speed of the previous afternoon, the afternoon of that day in North Cheyenne Canyon. It was with sighs of relief that the tired party reached Bruin's Inn, and dropped on rustic seats for a few minutes of rest. By six o'clock of that evening we were en route for Victor which proved the greatest trip from a sight seeing viewpoint, that we had the pleasure of making. Two days were spent in Victor, during which time we had the rare opportunity of visiting the Portland Mine, where several hours were spent in studying the geology of the ore deposits and the methods of mining. The Portland Mill, the Independence Mine and Mill, and the Eagle Customs Sampling Works were also visited.

Forever associated with the memories of the trip will be the strains of "On the Trail of the Lonesome Pine," and other favorites of the orchestra, composed of Copelin, Metz and Thomas. Their

THE ROLLAMO



music, we think is responsible to a large degree for our royal treatment by the people of Leadville, Breckenridge, Montezuma and Idaho Springs. At any rate their "rags" and songs played an important part in making the trip so enjoyable.

Saturday night found us back again in Colorado Springs and Sunday evening at the Congress Hotel in Pueblo. On Monday the 9th, we visited the wonderful plant of the Colorado Fuel and Iron Co. We saw huge iron blast furnaces, Bessemer converters, open hearth furnaces, and rail, rod and wire mills in operation, and observed all the steps in the conversion of the raw iron ores to the finished steel products. Returning to Denver that evening we attended the "Passing Show" and of course felt quite at home in our dress (?) suits.

Not one of us will forget the memorable twenty hour ride from Denver to Leadville which followed. Enduring starvation, rain and snow, delay upon delay, and the ceaseless flow of pseudo wit, humor, and delicate repartee of Metz, Clayton, Miller, Copelin and Castillon for twenty hours, we reached Leadville at 12:30 the following night in a blinding snow-storm.

Wednesday and Thursday were spent in visiting the A. V. Smelter, the Cord Winds, and the Ibex Mines, which we reached by electric mine cars through the Yak Tunne'. Geology study in California Gulch and Carbonate Hill and a visit to the Wolfon Mine claimed part of our time also. The Wellington Mine and Mill at Breckenridge were visited and some hydraulic mining and dredging observed. Hopkins piloted us aboard the huge dredge of the Colorado Gold Dredging Co., in Swan's Gulch and then to the best dinner we had yet discovered on the trip. We could hardly blame "Hop" for going no further with us.

The journey by stage to Montezuma, the liberal manner in which we were entertained en route, the dance to the music of the "accordeen" and especially Cepeda's Spanish tango, are all pleasant memories of the trip. And then the long hard climb to the lofty heights of Argentine Pass, and the views of snow capped peaks and broadening valleys beneath us—words fail here to describe either the difficulty of the climb, or the grandeur of the scenery which amply repaid us for the ascent to the top of the world.

A week was spent in surveying and mapping the Treasury Vault Mine, and the Junior trip of 1913 was ended. It was with a tinge of sadness that we sang our last songs, and said our farewells to Idaho Springs, as the party separated, some to go out in to the world of endeavor, and some to later return to complete their education at old M. S. M. the following fall.

AN ODE TO DEAN.

Be kind to your Sophomores, O George Reginald Dean,
Their beans are now sluggish and cold;
The works of each differentiating machine
Are rusty and sure growing old.

Ah, once they could do forty problems with ease,
But now they are spavined and lame;
Your quizzes alone give them heart disease,
Each mourns for the lack of a brain.

You toiled and you slaved like a government mule,
You gave every one a good chance,
You spoon-fed them full according to rule,
And rejoiced over each step's advance.

The campus is moist with the billows of sweat
You cheerfully shed as you sought,
To bring up these boobs to the mark you had set,
But the mark on their papers is "nought."

They say they don't know and don't give a damn
For the apples of knowledge that hang
Within easy reach of the bone-head called man,
But their hopes will go up with a bang.

So be kind to your Sophomores, friend George Reginald Dean
They'll be sorry they laughed when you railed,
The flush on their cheeks will turn sickly green
At the end of the term when they've failed.

MINE SURVEYING TRIP.

Commencement over, a dozen Sophomores and a couple of Juniors followed the straight and narrow path from Rolla to St. Louis, hesitated there until Saturday night, and then journeyed more or less gleefully over to Edwardsville. Here the embryo mine surveyors found lodging, entertainment, and partial refreshment at the St. James Hotel, the remainder of the refreshments being eked out across the street.

On the Sunday of our arrival Professors Forbes and McCandliss took us—or rather Professor Forbes took McCandliss and us—out to reconnoiter the mine that was to be subjected to our ignorance. To get to it, we rode an hour on the cars, and then enjoyed a pleasant walk of three miles or more from the station. Arrived there, we spent about an hour trying to make the lamps burn and then went underground. The rest of the afternoon was employed in wandering about the mine, dodging mules and overhead timbers, and trying to look interested and at the same time pleased.

Monday we started work in earnest, and with Mac's assistance, successfully captured the azimuth and conducted it underground on a couple of wires. Then we began the survey. For several days we struggled through the Main South, Free Clique, Due West, and Main North entries, and finally finished the traverse—but it is doubtful if it ever will close, even under the healing influence of time.

But we learned lots of things; how to set up under a point, how to chain along the rails, how to get lost in the easiest possible way, how to replenish a lamp when far from the water bucket, and best of all, how good a lunch tastes at midnight.

Arrived back at the hotel after a night's hard work, it was our usual custom to bathe in the one tub, sleep till noon, and then fuss the two girls that Fernandez discovered on the day of his arrival. Yes, Fernandez was along. He came out to the mine in a white shirt and with no lamp, purposing to find his way about by instinct. But he was sure there with the ladies. They fell for the "boy with the black hair and the teeth."

There were several incidents that might be related if space only permitted; how Cole and Griffin ran off with McCandliss's lunch, leaving his party hungry and ready to fight; how "Tex" Wilson got hung up in the cage half way up the shaft; how Kayser adjured him to stay there and not move until he was rescued; how the boys patronized a certain "girly" bakery; how one had to belong to the lodge to buy cigarettes; how "Jinx" visited us one day with an electric spot light and a bagful of "Kosher" lunch; how some of the fellows were scared by the night boss' wild cat stories; and finally how some of us had to wait for money from home to get out of town.

But everyone had a splendid time, and perhaps one or two of us learned something, which, the faculty opines, is justification enough for any trip.

THE ROLLAMO



GREEN CAP DAY.

My friend! Have you never been rudely snatched from the arms of Morpheus to see standing over your bed a couple of blood-thirsty looking individuals clad in sweaters and armed with persuasive looking barrel staves? Have you never been commanded in authoritative tones to rise and follow your superiors out into the calm, still night where you met some dozen more large-eared young cigarette holders in turned-up trousers and pompadour hats each armed with a club closely resembling a young tree? Have you, then, never been forced to bay at the moon, to scramble like an egg, to roll a peanut across the street with your nose, to give your high school yell, to display your vocal talents, or, perchance, to take a swim in the Frisco natatorium? If you have never experienced any of the preceding things, it is evident, my friend, that you were never a Freshman at M.S.M.

In September the foregoing touching little scene was staged nightly. The stage managers were the members of the Class of 1916, while the actors were those future mining engineers known as Freshmen. Things ran on in this manner for about a week, when the Freshmen finally realized that they were being "funny-sheeted" and began to show signs of rebellion at such treatment. One night the majority of the two classes came together on the campus and there under the stars a miniature Green Cap scrap was staged in which the Sophs were victorious. Feeling now ran high and nightly encounters were the customary thing.

Then came the night when the Sophs armed with brush and paste quietly stole about the sleeping city and the dawn revealed the green posters of 1916 gleaming from post, tree, barn, walk, and wall. They informed those arrogant, brainless, cock-eyed, degenerate, egotistical, four-flushing, graceless, hideous, ignominious, juvenile, knock-kneed, lunk-headed, mangy, nefarious, pigeon-toed, querulous, rubeish, superficial, terrified, unsophisticated, vain-glorious, whining, xanthic, yelping, zorillic Brachiopods who styled their filthy and repulsive selves members of the ignoble Class of 1917 that September 15, 1913 had been "set aside as a day for the instruction of their infantile comprehensions."

The next night the Freshmen attempted to put up their posters but the Sophs were "on the alert" and the next day saw each Freshman poster covered over with the green proclamation of '16. The next night, however, the Freshmen were successful in pasting up their haughty reply. Sunday night, September 14th the Freshmen left town in a body and spent the night at the fair grounds.

And then the great day dawned. A light rain was falling and the ground underneath was soaking, giving promise of a muddy conflict.

"Give 'em H—l, '16! Give 'em h—l, '16! Give 'em h—l, '16!" thundered the Sophs, 55 strong, who were stationed at the north end of the campus opposite Chemical Hall.

"Go to h—l, '16! Go to h—l, '16! Go to h—l, '16!" answered the 50 Freshmen stationed at the south end.



And then the fight was on!

In a moment '16 and '17 were locked together, tumbling and rolling in the mud until one would gain the advantage and hold his captor helpless until the ropes could be applied. The air was filled with cries of "Help, '17!" or "More rope, '16!" At first the struggle was fierce and furious but soon the Freshmen wearied from their all-night stay at the fair grounds and on account of their inexperience, began to weaken. Slowly but surely the Sophs gained the advantage and one by one the Freshmen were tied and dragged away. Occasionally some Freshman would succeed in getting loose and show some "pep" but he was promptly tended to by several Sophs. In less than twenty minutes the Freshmen were subdued and the Class of 1916 declared the victors of the muddy combat.

The scene was then set for the fun or, as it appeared to the Freshmen, the post mortem. They were lined up and tastily decorated with signs and green paint by the more artistic members of the Class of '16. The captives were led to Jackling Field, where before the public, Faculty, and "Stewdents" the same performance related at the beginning was staged on a magnificent scale. After the performance, the Freshmen were marched down to the business district of the city where they had their pictures taken, and then were headed to the official Green Cap emporium where each member of the Class of 1917 was adorned with regulation headgear.

Thus ended the 1913 Green Cap Day, with no hard feelings on the part of anyone, but all remembering it as another one of those seemingly foolish affairs which make our college life more worth while.



THE GEOLOGIST'S LAMENT.

A Soft Conglomerate

I met my love by an ancient lake,
Where the glacial till was deep,—
Where days of old saw lizards bold
And dinosauri, leap!

Her hair was touched with the pyrite's gleam:
Like crystal quartz her eyes:—
The ruby's tint on her rounded lips,
Like purling springs her sighs!

"Ah, Sweet!" I breathed, "as the eons flew
And fossils formed in clay,
And bits of filt'ring limonite
Entombed them where they lay,—

"Through all the years of the shifting meres,
While soft the ox-bows wound,
Did Potash cleave to Silicon
In the molten magma's bound!

"As Potash cleaves to Silicon,
So cleaves my soul to thee!
May mortal never break our bond,
Nor part our love the sea!"

She pensive moved o'er Triassic stone
Where three-toed beasts once tracked:
"It's not your *fault*," she harshly said,
"But surely you are *cracked*!"

Prentice Abbot.

ST. PATRICK'S DAY.

There was great disappointment on the morning of March 17th, when Rolla awoke to find a light rain falling. This was our first St. Pat's celebration in history to be marred by inclement weather. The parade was scheduled to start from the Grand Central Station at eight thirty, but because of the storm, the usual preparations made for St. Pat's reception in front of Norwood Hall had to be moved to the auditorium in Parker Hall, causing a delay of over an hour. By this time the rain was falling steadily, but the procession moved forward over the usual route, through town and up Pine Street to the campus.

The parade was headed by J. R. Maher on horse-back in a Herald's costume. He was followed by Scott's Band and a military troop representing St. Pat's Royal Guards. Next came an automobile containing Mr. F. L. Johnson as St. Patrick, his two pages, Yaro Klepel and Carl Weiberg (two fine Irish lads), and his counsellor, Mr. Jos. B. Cole. Behind this machine marched those of our school who had already been dubbed Knights of St. Patrick followed by the members of the Senior Class, upon whom the degree was to be conferred.

Another machine containing the M.S.M. coeds, a very unusual feature of our parades, followed behind the Seniors, and then came the floats and individual stunts put on by the different classes. The Senior float represented the four classes from the infant Freshman to the graduate Senior, and also reproduced a cartoon from an old Rollamo showing "School Spirit" hanging lifeless on a gallows built of petty jealousy, greed, politics, etc. The Junior class presented an excellent reproduction of Rolla's famous High School, showing its evolution from a saloon through various stages to its present place of housing the unfortunates of Rolla of high school age. Upon it was inscribed the advice "Wake up and build a High School—This is the 20th Century." All of which received a remarkable press notice at the hands of our most thoroughly progressive journalist.

The Sophs presented a float dedicated to M.S.M.'s new gymnasium, with the query "Where is our gym for which \$70,000 was appropriated over a year ago?" "Rolla's Speed" was represented by a "one horse power" auto, and "Rolla's 400" was depicted by a cage filled with motherly looking old hens. Immediately preceeding "Rolla's 400" was a crated rooster announced as "The M.S.M. Student."

The Mining Engineer's float, the Civil Engineer's float and outriders, and the individual stunts such as "September Morn," the Beer Keg Chariot, etc., etc., were all exceptionally good.

Upon the disbanding of the parade, every one proceeded to Parker Hall, where the Seniors appeared in green caps and gowns. St. Patrick held court, giving his followers words of good advice and encouragement and telling of his pleasure at being with us again. At this time the discovery was made that

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the coveted Blarney Stone was not to be found. Several of the Royal Guards were detailed to find the stone and bring in the thief who had stolen it at the Station. They soon returned with both, the thief proving to be Ralph Wilkins in an excellent disguise as an Englishman. He readily admitted his guilt and gave as his reason his exceedingly great love for the Irish. St. Patrick immediately sentenced him to death. He was removed at once and the Royal Guards fired enough shots to kill a dozen Englishmen.

St. Patrick then proceeded with the Knighting, each member of the Senior Class being compelled to kow-tow, kneel and kiss the Blarney Stone, and make some promise as to his future good conduct before being dubbed and receiving his certificate. In addition to the Seniors, the degree of Knight of St. Patrick was conferred upon Professor H. T. Mann, J. H. Bowen and C. C. Forbes, and upon H. A. Buehler, Chief of the Missouri State Geological Survey.

By two-thirty in the afternoon Parker Hall was filled to overflowing, both the main floor and the balcony containing as many as possible. The entertainment for the afternoon consisted of a six reel picture show and six vaudeville artists from St. Louis. All of the reels were good, and the dances and violin and vocal selections made a decided impression upon the audience. The inexperienced orchestra proved somewhat of a drawback to the performers, but all in all the show proved to be much better than those usually seen in Rolla. This entertainment was repeated in the evening at seven o'clock and another great and appreciative audience attended.

At nine o'clock in Mechanical Hall the Annual Masque Ball took place. The decorations were probably the best ever seen on such an occasion, green streamers and the school colors in streamers being the principal means. A feature of the decoration was an electric sign at one end of the hall spelling out the words "Erin Go Bragh." The intermittent flashes from this sign created a beautiful effect when the other lights in the hall were dimmed. The floor was crowded with the masked dancers, and all the available room around the floor was taken by spectators.

About nine-thirty St. Patrick appeared, and after all his subjects had kow-towed before him again and he had given a few parting words of good will and advice, he bade the Grand March to proceed and departed. The costumes of the dancers were many and varied, most of them were excellent and the disguises perfect. When the unmasking took place about eleven o'clock the greatest merriment prevailed as the many mysteries were cleared up.

At this time programs were passed out and the dancing continued. Throughout the evening delicious punch and cakes were served. The ball ended about one o'clock and another St. Patrick's Day at M.S.M. passed into history. In spite of the rain in the morning the day was a decided success, and the greatest credit is due the committee and the Junior Class in consideration of the many difficulties encountered.

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COMMENCEMENT 1915.

The annual Commencement Ball was held in Mechanical Hall on the evening of Thursday, May 29, 1913. The hall was beautifully decorated with gold and white bunting. Refreshments were served in the basement of Parker Hall, and music was furnished by Falkenhainer, St. Louis. The arrangements were made by the Student Council and everything went off in grand style.

The graduation exercises took place Friday morning, May 30, in Parker Hall. Although the day was warm and the hall was crowded, those present were accorded a rare treat in the commencement address on "Measuring the Output" by Dr. E. E. Sparks, President of Pennsylvania State College. In the afternoon, the unveiling of the Luman Frank Parker statue took place, Honorable John H. Lucas delivering the principal address after being introduced by Ex-Governor D. R. Francis.

President A. Ross Hill conferred the following degrees:—

ENGINEER OF MINES

Edgar Joseph Wolf, B.S. 1909.

BACHELOR OF SCIENCE IN MINE ENGINEERING

Dexter Eli Andrus,
Lyman H. Brooks, Jr.,
Leonard Stephen Copelin,
Scovill Edward Hollister,
James Hopkins,

Howard M. Katz,
Harry Hackett Nowlan,
Harry William Shaw,
Richard Alexander Wagstaff,
Thaddeus C. Wilson.

BACHELOR OF SCIENCE IN METALLURGY

Charles Bromson,
Charles Yancey Clayton,

Frank Wesley Cody,
Robert Glenn Sickly.

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

William Ehlers, Jr.

BACHELOR OF SCIENCE IN GENERAL SCIENCE

John Wikoff Greene,
John Charavelle Ingram,
William Ralph Knappenberger,

Ray Gould Knickerbocker,
Philip Aylsworth Moore,
John Andrew Murphy,

Donald Hewson Radeliffe.

ELMO G.

Elmo G.
Fluently
Discusses the term "viscosity,"
He goes to banquets when he's able,
And sadly sits down at the table.

Elmo G.
Absently,
Puts sugar and cream in his beef tea.
He eats his way without thought or care
From end to end of the bill of fare.

Elmo G.
Presently,
Turns from food to hilarity.
He sees a damsel, demure and fair
Trip down the aisle right toward his chair.

Elmo G.
Expectantly,
Awaits what he knows his fate will be.
The damsel pauses behind his chair
And ruffles up his ruddy hair.

Elmo G.
Blushingly,
Knows that all the school can see.
He tries to show his indignation
But hates to stop the new sensation.

Elmo G.
Suddenly,
Seizes the arms that around him be.
Unwinds them from about his throat,
Says, "For dignity's sake find another goat."

Elmo G.
Hesitatingly,
Makes his way home in perplexity.
On the rest of this indiscreet little tale,
We'll drop oblivion's concealing veil.

ARCHITECTURE.

How many of you have ever stopped to think what a splendid place Rolla would be to establish a school of Architecture. Right here at the School of Mines we have every known style of building design in captivity, and bring the observer, yea, even drag him, through all the architectural eras and periods from the classic Greek and early Roman down through the later Georgian and post-Tertiary.

Take the old Rolla Building to start with. Its inception dates back to war times and it was furnished with a little wart of a cupola on top so that the director at that time and Doc.—excuse us we mean the Board of Curators, could see a prospective student miles away and send out and grab him before he had sense enough to struggle.

Then the Chemistry Building. It is built along the well known, utilitarian lines of a soap factory, and while there may be some who think that its designer should have given heed to the use that it was to be put to and would have laid it out with some regard for convenience and accessibility, yet the most carping critic must agree that it is a wonderful stimulus for the development of a track team. To get from the laboratory to the stock room, or indeed to any other part of the building, the poor Freshmen must run through every room in the place, go out doors, gallop twice around the building, crawl through a window and slide down the coal chute. Such procedure, if indulged in frequently gives one a powerful leg and lung action. But in spite of all this, the ivy on the outside of the building is magnificent in the fall.

And then the Mining Building, grand old relic of the days when this was a two room school. Now it has a remarkable function to perform. It must house both the Rollamo Board and Professor Dean at the same time. Two such inflammable and excitable objects under one roof is enough to cause any staid old building to worry, so it is no wonder that we find it bulging out in the most unexpected spots with bay windows, re-entrants, escarpments and the like, until the uninitiated is led to believe that the designer was a welsh rabbit insomniac.

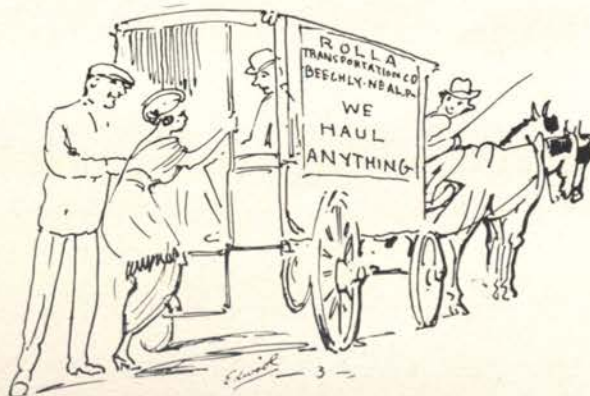
Pass we on to Norwood Hall. It stands up on the hill like a young ladies seminary, or the Carnegie library at Fergus Falls, Minnesota. Sphinx-like it rears its head above the town and sniffs the Ozarkian Ozone with a superior air. Architecturally it consists

of one large rectangular block, flanked in either side with sem-circular swellings, reminding one of nothing so much as Cubist picture of a "Nude Eating a Double Egg Sandwich."

The mineralogy department should have its quarters in Mechanical Hall. It looks just like one of those accursed blocks that the Sophomores throw out the window when they do not know its name. It belongs either to the tetragonal or isothermal system, we forget which, and displays more or less proudly, several pinacoids and macrodomes. It is our candid opinion that its design originated in the mind of Louie Kahns or some one of those Yiddish kings of France.

Parker Hall gives one the general impression of a Japanese pagoda just emerging from an overgrown piano box. It is probably reminiscent of the period when the severe lines of the Mission school were giving way to the flowing-roby and sweetly-swellling Oriental view. But when one goes within all this is forgotten. Its marble floors and general sanitary aspect makes it almost as attractive as a Child's Restaurant, and if you do not see a neat, white aproned waitress in the offing, you must be patient and remember that you can not expect all modern conveniences at a mining school.

In keeping with the characteristic lack of uniformity of our buildings, they are going to build the new gymnasium along the lines of a modern battleship or the Missouri State Penitentiary. Gawd knows there is reason for each resemblance. If C. B. C. ever comes down here again we will need a battleship, and a careful scrutiny of some of our promising young athletes and "football specials" leads one to suspect that they would feel more at home in a gymnasium with barred windows and battlements than any where else.



OUR LADY E. M.

Of course you remember the one lone fem,
Who came down to school to get her E. M.
(We merely write this platitude to show a lot of gratitude).

To help her register was Cope and Mann and Terry Mac
And every single bachelor upon the Fac;
(It caused them great hilarity, for co-eds were a rarity).

She took the course from Math to Met,
And we all helped her, you can bet!
(She spoke our names without the mister, and only one there was
that kissed her).

The papers soon they spread her fame,
And her's became a household name.
(The lady mining engineer was the great sensation of the year).

She passed the course without half trying,
Came out on top with colors flying.
(Her "dip" was tied with ribbon pink and written out in pale blue
ink).

She bought a pair of mining boots
And a couple of classy corduroy suits.
(She was ready to show what ore to mine, and after it's winning how
to refine).

But first she went to the Missouri Survey
And taught them there a little Geology.
(You see she knew more about rocks than did our Doctor G. H. Cox).

I wish the tale of her fame and glory
Could be the moral of this story.
(Alas, for the moral of ambition! She has resigned her first position).

Our profession's loss is one man's gain,
 For she hopped abroad the wedding train.
 (Like many a woman who sought high-brow blisses, she is happier
 far with the title of Mrs).

Ah, bewail the loss to M. S. M.
 Robbed of the glory of a lady E. M.
 (Now really does her attitude show any signs of gratitude)? K



THE CALL OF THE OLD SCHOOL.

There are many places where I'd like to be,
But one surpasses all,
And that's to be back at the old school,
Strong and stronger comes the call.

I'd like to come back to the old school
And hustle for eight o'clock class,
And take a girl down to Faulkner's
And play with a soda glass.

I'd like to sit in the old rooms
And hear the Profs work again,
Taking the lads from the high schools,
And turning them into men.

I'd like to be out with a transit
Running railroads they never could build;
Or down in the Ore Dressing building
Running gangue that should never be milled.

I'd like to get into my old clothes
(And first of all bum a big chew),
Then work in some lab. like a Trojan
And dope out a method that's new.

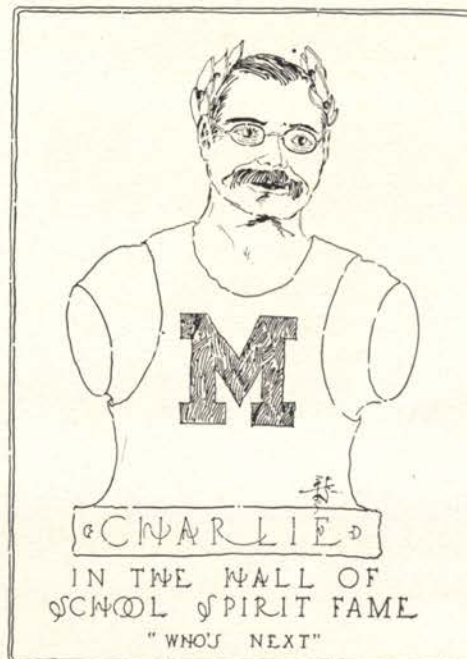
I'd like to be back in the old town
And walk the familiar streets;
Be back in my little hall bed-room
And go to the Beanery for eats.

I'd like to stroll out to the old cut
And walk up the Fort Wyman hill,
And go down to the Little Piney
Out by the Yancy Mill.

Oh, I'd like to be there with them
'Stead of here in the work-a-day strife,
To share once again in the pleasures
And joys of the college life.

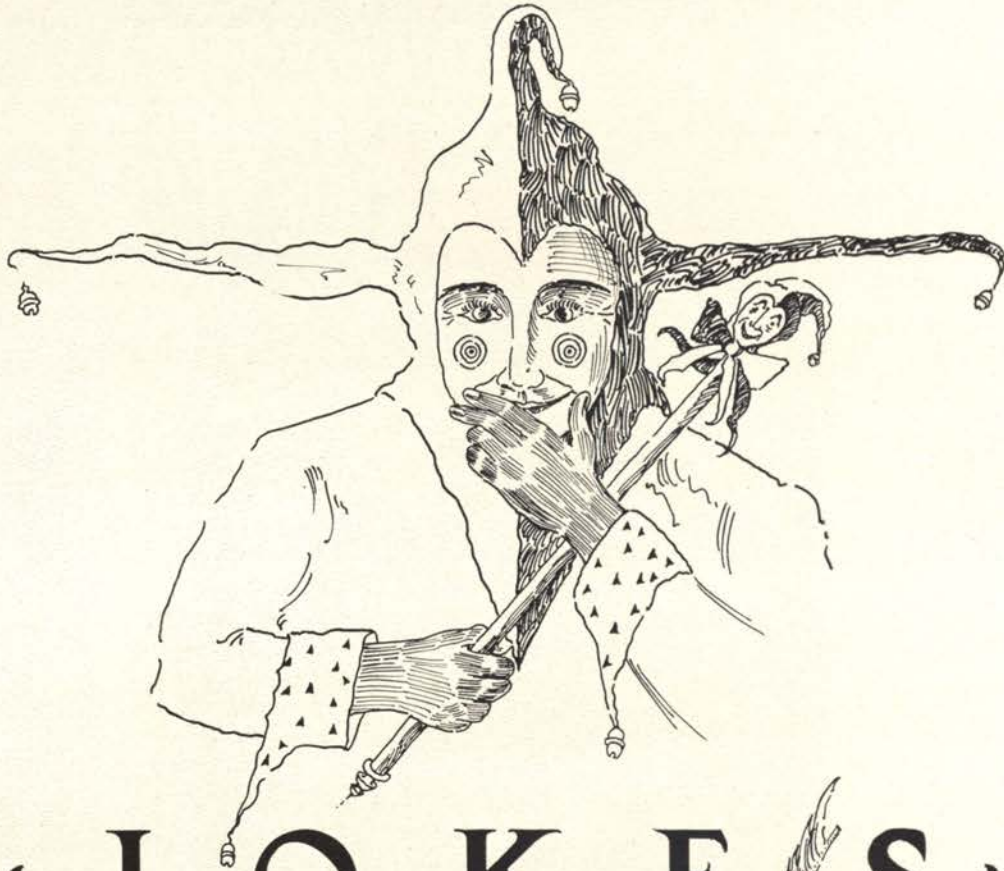
In my heart there is ever an aching,
A desire to re-enter the fold;
On the field, in class-room, in shop-work,
Be one of the boys as of old.

I'm longing and a-waiting
In my shack beneath the pines,
To come back to you, dear mother,
Alma Mater! School of Mines. K



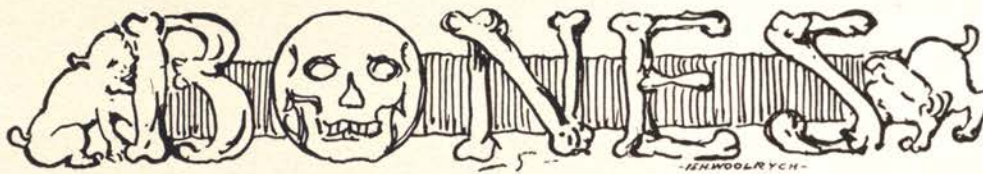
THE ROLLAMO





' J O K E S '





"Cleavage is that virtue by which a mineral parts more readily along certain parallel planes than along others." Deutman, in Crystallography. This definition gives us a new basis for mineral classification, namely, virtuous and non-virtuous minerals.
 "Who is Rose Quartz?"

"Why, Professor Ingram, can you not burn hydrogen in a vacuum?" von Horten.

"A supersaturated solution is one which contains more of the salt than it can hold." Bob Smart.

"If the substance is not chemically combined, it is then a "machinical" mixture." Krebs.



"The index of refraction is the sine of the "indecent" ray divided by the sine of the "refractory" ray." Jim Worley.

Professor Cox in Field Geology; "Now, Ole, where does this contour line run?"

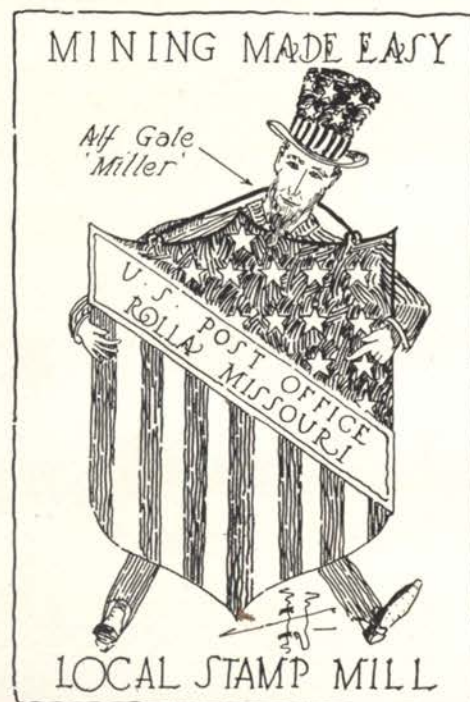
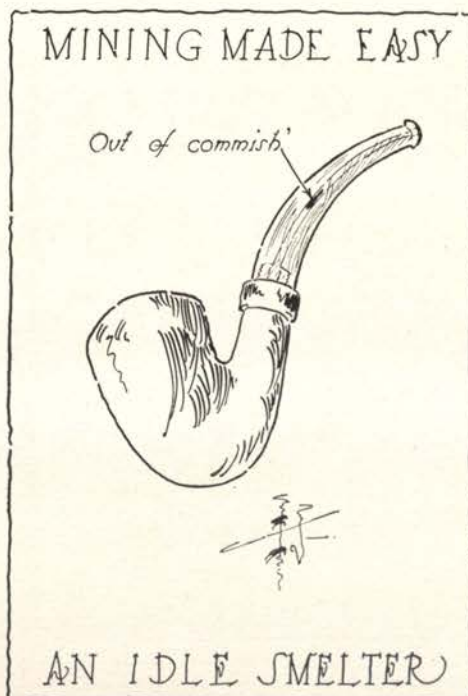
Ole, "Oh, off down hill, over there."

"The gas engine resembles the steam engine in that it explodes before it reaches the end of its stroke." McCague.

Freshman in Chemistry: "Give me some Myrtle Orange and two Brunettes."

Professor Jack "How can you make a ten per cent. solution of H_2O ?" Bright Freshman, "I don't know."

Professor Jack, "Take 10 c.c. of distilled water and dilute it."



Try and translate this one!

"The difference in the color of the sky when viewed vertically and horizontally is due to the lenses of the eye and the topic nerve; there being a greater excitement on the nerve vertically looking than normal horizontal." Torp.

"Light is a produced elumination from bodies which are heated to incandenices." John Schuman.

"Storms rotate anticlockwise in the northern hemisphere, for, as the earth rotates from west to east it slides from underneath the atmosphere, and therefore the storms in the north would tend to blow in the opposite direction." East.

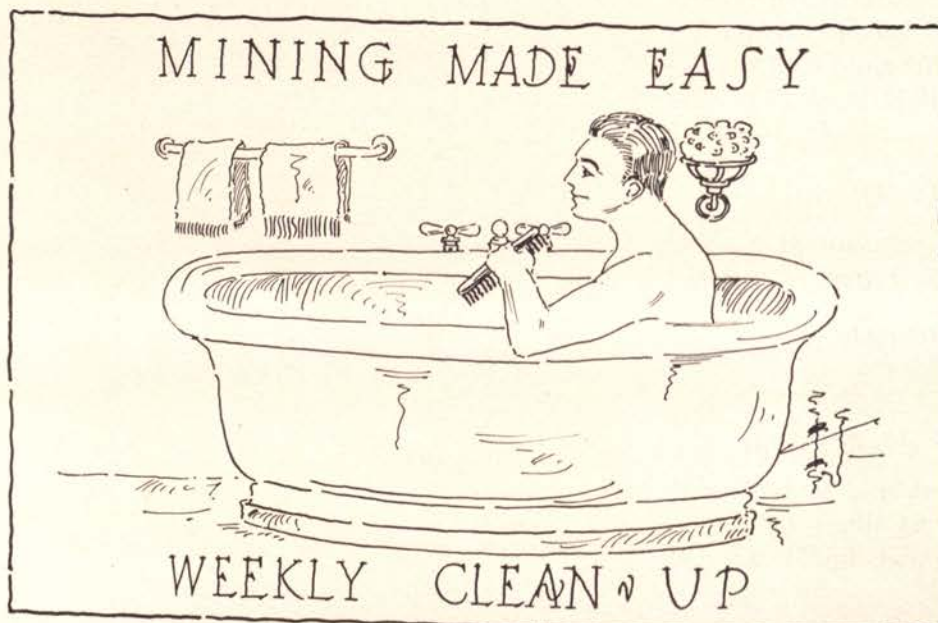
"Light is a series of waves, perpetrated by different kinds of energy." Jimmy Allen.

Eggie:

"Pipe the waist on that dame."

Boots:

"That's not waste, that's economy."



DO YOU REMEMBER?

What you thought of Rolla the second day after you landed.
 The first Rolla girl you met.
 How Parks used to meet the Freshmen.
 When Bob Mook was a Freshman.
 The first time jokes about Dean appeared in the Rollamo.
 How Murphy used to sing "Columbo."
 The night before the scrap, when you hiked to Panther Bluff.
 When you drove to Merrimac Springs.
 Your first "Please call at my office."
 Who first started "bumming" to football games.
 Whose "hope and faith" clothes you wore to the Commencement Ball.
 When the cab came to town, and the first time you had to hire it to
 take "Her" to a dance.
 The real coming-out party.
 When we used to dance in the Chemistry Building.
 Who introduced the green caps.



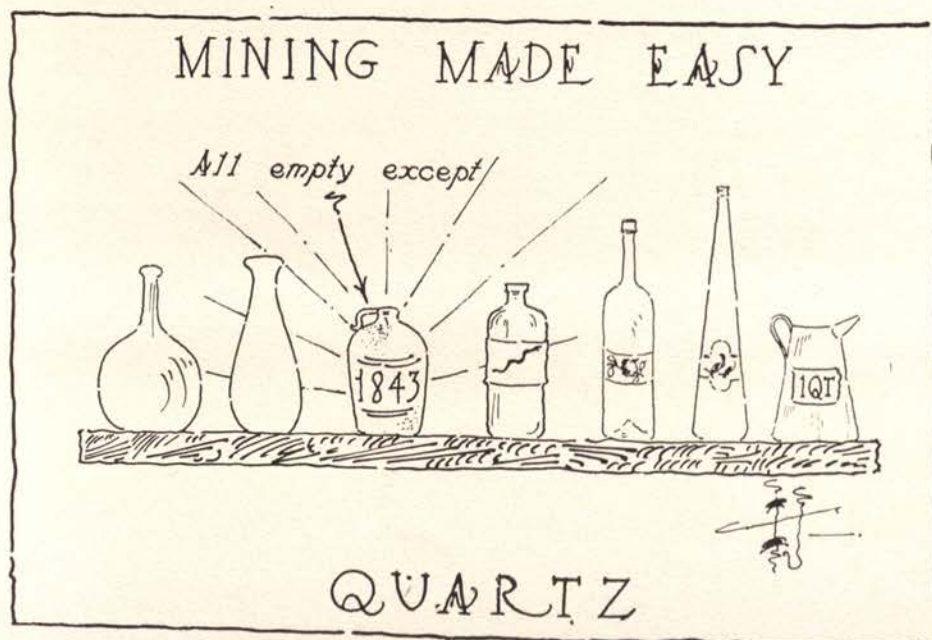
MINING MADE EASY

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	8	6	9	4	7
		3	5	7	2
6	7	9	4	8	1
4	3	7	7	7	7
9	2	2	8	9	9
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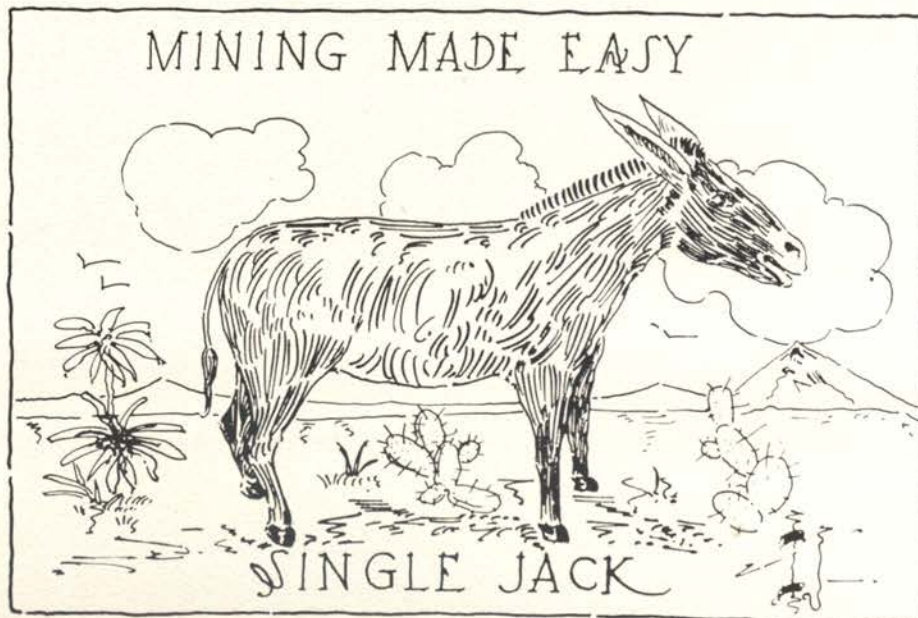


When our "College-Widows" (we mention no names) were little girls.
When they put the cow in Professor Richards' office.
When they painted Dean's horse "Calculus."
When Fred Lane got *his* job.



DO YOU REMEMBER ?

The first mention of "Volume Thirty Six."
 The first trilobite you found, also Orthoceras, Productus, Crinoid, etc.
 How much you knew when you graduated.
 How little you knew when you started to work.
 When you joined the Y. M. C. A.—or did you?
 The first Annual Show you were in.
 When you used to put that jeweled pin on your pajamas.
 The one big New Year's Party.
 Your "knighting" by St. Pat.
 Walking out Holloway's.
 How John Boles used to declare the holidays.
 The Town Scales on Pine Street.
 The last St. Pat's celebration in the Cut.
 When the whole school signed the pledge.
 When Doc Louie shaved his beard.
 When Bob Mackey's trial came off.
 When Sister Welsh unlimbered the artillery.
 The original friendship ring.
 The marriage and charivari of Stuart Strathy.
 The first time you went to the Gasconade.
 When Jo-Jo or Eggie conducted the excursion to Salt Peter Cave.
 Origin of "Ostracism" in Rolla's Four Hundred.



JUST A FEW WORDS OF ADVICE TO FRESHMEN IN RE THE COLLEGE WIDOW.

Above all things, my son, meet them; for they are the joys of your college days and withal, a fount of wisdom.

Truly I say, one of the old girls pulling for you will mean more to your campus advancement than an early education and a purse full of shekels.

Don't seek to pick one! Meet them all and one will adopt you soonly—aye, even pull the hair of her sisters for your possession.

Don't try to put over the high brow line. She has met many a wiser man than you, and remember that your innocence is its own protection.

When you take Field Geology don't second-hand the information to her when you stroll out the lane. Every Junior in the past decade has done the same, and she knows all the faults of the locality and grew up alongside the fossil beds.

When you take her to dances let her handle her own card. She knows more about rustling dances than you ever will.

Don't knock the other girls when talking to her. Kipling was thinking of Rolla when he wrote "The Colonel's lady and Judy O'Grady are cousins."

Even though there are autos in town, don't hesitate to suggest a buggy ride. The car hasn't been made that will go with the control wrapped around the whip-socket.

And now for the great Masonic secret of the fusser. Tell her frequently (I warn you, don't write it) that she is the only girl in the world, and the most beautiful (she knows better, but still she likes it), and call her "dear" every little once in a while. Then will she love you and miss you from commencement till the fall campaign. What more could you ask?

Dean calling the roll in Calculus:

"Dunam-present! You ought to be a good man to collect bills."

Dean to Ashdown:

"I will have to get ahold of you and shake the ash down."

"And when he proposed did you tell him to see me." asked Mrs. W.

Mary: "Yes mother, he said he had seen you several times but he wanted to marry me just the same."

Professor Cox:

"Topaz" is merely a trade name, Ole. Sam Bentley wouldn't know topaz from glass. He might sell you a piece of glass for topaz."

Professor Harris:

"Now Mr. Collins will you give me an example to illustrate that a fraud had been perpetrated in a contract."

Mike:

"Well, some fellow might sell the State Capitol Building or some Union Depot. I think this would be an example of fraud."

Professor Harris:

"You should read your text and read it as a hungry man would eat."

Professor Cox:

"Wager, can you tell me what is a fault?"

Dadgummit:

"A displacement of bedding."

Professor Cox:

"My bedding is displaced every morning, is that a fault?"

Dadgummit:

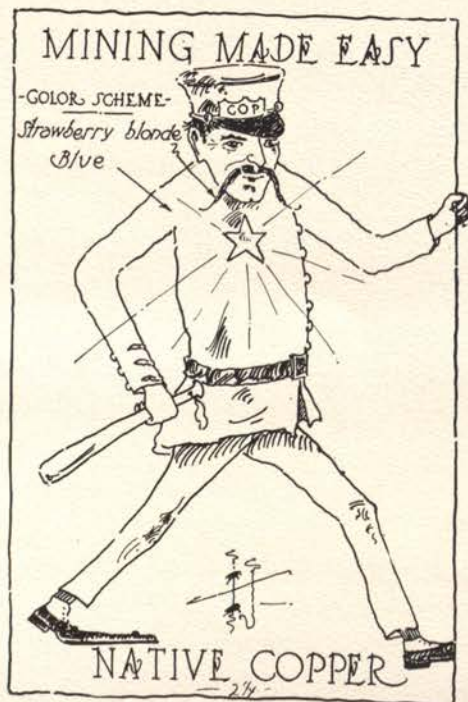
"I guess that's your fault."

Student to Dean:

"I worked until five o'clock in the morning on that problem."

Dean:

"It must have begun to dawn on you about that time, didn't it."



BILLS.

The "credits" you get from the local merchants in four years may get you a "writ of attachment," but they are not accepted as legal tender for your sheepskin.

Take your new dictionary (the one with "love from sister" on the front page) and turn to the Cs. With Higgin's black obliterate the word "charge." It's a good word for a soldier but you're not in the army.

An account at the First National or Rolla State is worth a million accounts in the stores along the street.

A "writ of attachment" is not the same as a testimonial of regard. Paying cash pays 100 % dividends in freedom from worry.

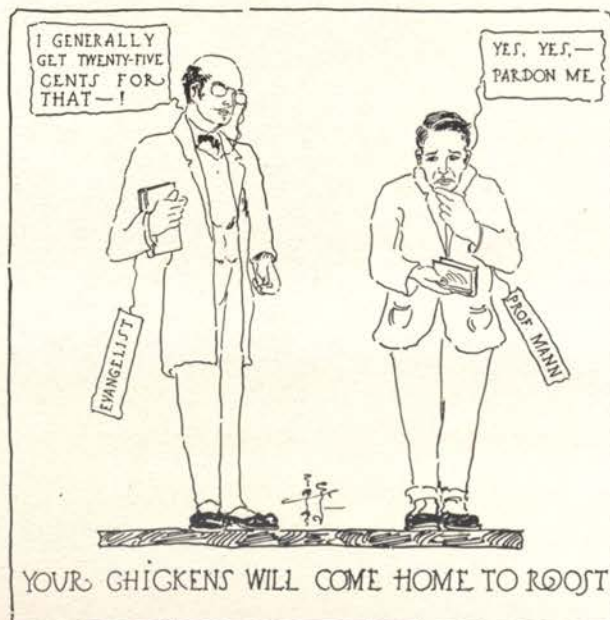
TOUCH.

(Being an excerpt from a Tau Beta Pi examination paper.)

(Question from Physics Department).

Explain Instantaneous, Effective and Maximum touch, and show how these terms are used in connection with touch, and give their restricted meanings.

Answer. Instantaneous touch is when you are touched by a friend the minute he sees you. Effective touch is when this friend (?) succeeds in separating you from something. Maximum touch is when he touches you for all you have.



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HENRY WOOD, Assistant Cashier.

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HE'S A FUNNY MAN, and has a funny occupation, makes his living by attending to other people's business, and somehow gets by with it. His suite of rooms over the State Bank is the busiest place in town, and seems to be the most popular, judging from the number of people coming and going. He has four large rooms thoroughly equipped with maps, plats, drawings, surveys, diagrams, and a complete copy of everything of record affecting the title of real estate in the county; a good law library, and in fact he can give you any information desired relative to real estate in PHELPS COUNTY, MISSOURI, and if it is insurance you want to know about, he is IT—will write anything from life insurance on a hog to a human; but fire, tornado, accident, health, plate glass, burglary, liability, and all kinds of bonds, is his long suit. When a prospective customer enters the front room he is met by a very plausible man, who will give him the information necessary to fit him for entry to the middle chamber, where he is taken in charge by DAN F. DONAHOE, who puts him through a course of sprouts, and then if he is not yet in a frame of mind to "turn loose" he is thrust into the back room, and in his weakened condition, will more than likely "get worked" good and proper, and it is still funnier to understand that when RUCKER once gets a client, he never loses him, he always goes back when he wants anything in his line. *You had better meet RUCKER. It might be worth your while to know him.*

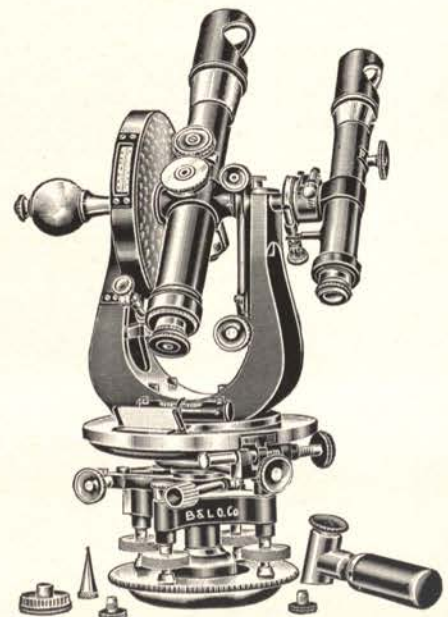
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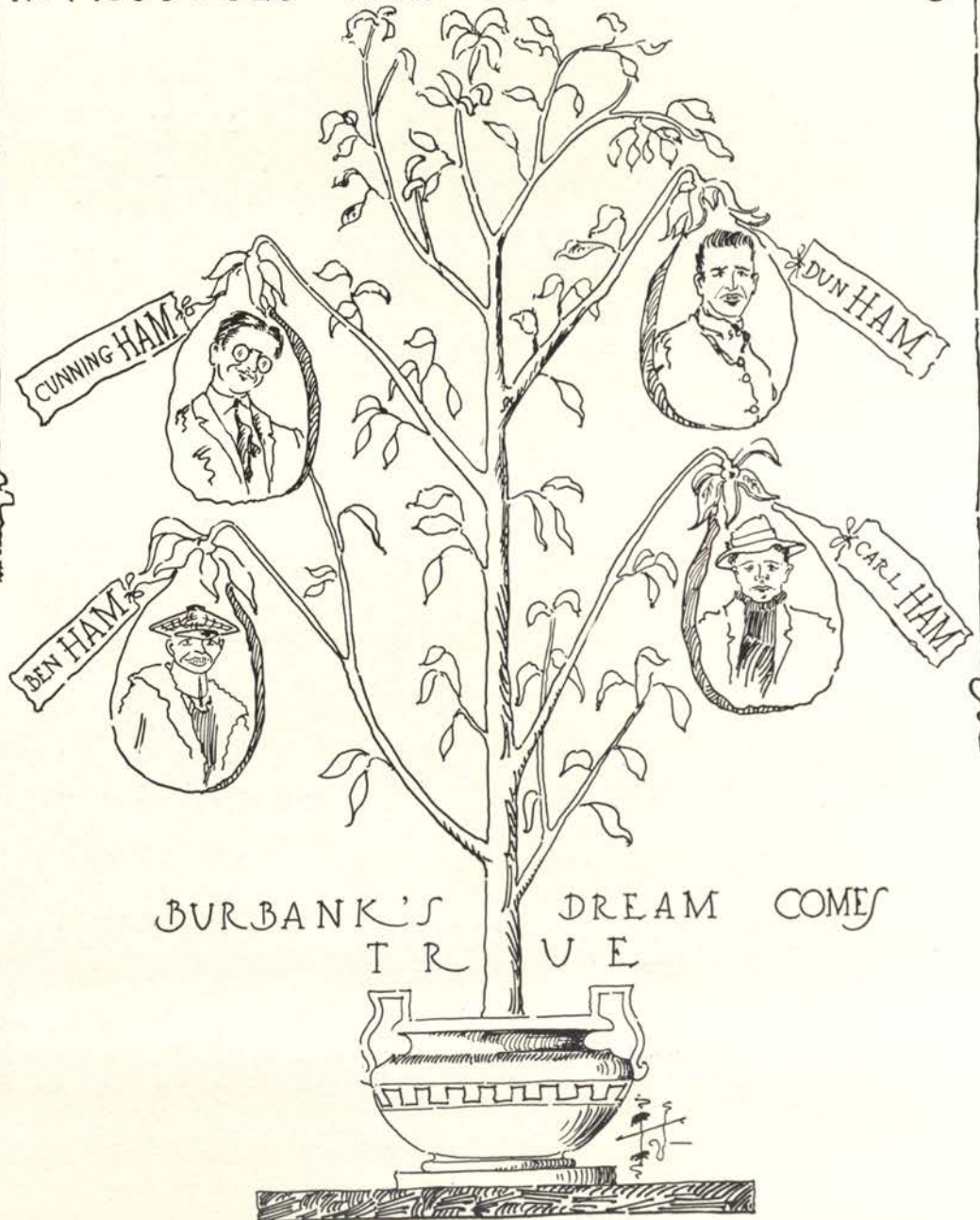
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